EXHIBIT 11

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 2 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS EYES ONLY

```
UNITED STATES DISTRICT COURT
  1
  2
                 NORTHERN DISTRICT OF CALIFORNIA
  3
                        SAN JOSE DIVISION
 4
 5
      CISCO SYSTEMS, INC.,
 6
                    Plaintiff,
                                  ) Case No.
 7
              vs.
                                  ) 5:14-cv-05344-BLF (PSG)
 8
      ARISTA NETWORKS, INC.,
 9
                    Defendant.
10
11
12
       *** HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY ***
13
14
15
         VIDEOTAPED DEPOSITION OF RAMANATHAN KAVASSERI
16
                       Palo Alto, California
17
                    Tuesday, February 23, 2016
18
                            Volume I
19
20
21
22
     Reported by:
     CARLA SOARES
23
     CSR No. 5908
24
     Job No. 2216982
25
     Pages 1 - 195
                                                        Page 1
```

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 3 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS EYES ONLY

```
UNITED STATES DISTRICT COURT
                                                               1 APPEARANCES (Continued):
          NORTHERN DISTRICT OF CALIFORNIA
  2
  3
             SAN JOSE DIVISION
                                                               3 For the Witness:
  5 CISCO SYSTEMS, INC., )
                                                                       FARELLA BRAUN & MARTEL LLP
                                                               5
                                                                       BY: RODERICK M. THOMPSON, Attorney at Law
           Plaintiff, )
  6
                                                               6
                                                                       Russ Building
                 ) Case No.
                                                               7
                                                                       235 Montgomery Street
  7
                  ) 5:14-cv-05344-BLF (PSG)
                                                               8
                                                                       San Francisco, California 94104
                                                               9
                                                                       415.954.4400
  8 ARISTA NETWORKS, INC., )
                                                              10
                                                                       rthompson@fbm.com
  9
           Defendant. )
                                                              11
                                                              12
 10
                                                              13 ALSO PRESENT: Ramon Peraza, Video Operator
 11
                                                              14
 12
 13
                                                              15
                                                                              --000--
 14
                                                              16
 15
                                                             17
          VIDEOTAPED DEPOSITION OF RAMANATHAN
 16
                                                              18
 17 KAVASSERI, Volume I, taken on behalf of Defendant,
                                                             19
 18 at 601 California Avenue, Palo Alto, California,
                                                             20
 19 beginning at 10:09 a.m., and ending at 4:26 p.m., on
20 Tuesday, February 23, 2016, before CARLA SOARES,
                                                             21
21 Certified Shorthand Reporter No. 5908.
                                                             22
22
                                                             23
23
                                                             24
24
25
                                                             25
                                                      Page 2
                                                                                                                   Page 4
 1 APPEARANCES:
                                                              1
                                                                            INDEX
 2
                                                              2 WITNESS
                                                              3 RAMANATHAN KAVASSERI
                                                                                                       EXAMINATION
 3 For the Plaintiff:
                                                                Volume I
        QUINN EMANUEL URQUHART & SULLIVAN, LLP
                                                              4
 5
        BY: MARK TUNG, Ph.D., Attorney at Law
                                                              5
                                                                       BY MR. SANTACANA
                                                                                                       10
 6
        555 Twin Dolphin Drive, 5th Floor
                                                              6
                                                                       BY MR. TUNG
                                                                                                  186
 7
        Redwood Shores, California 94065
                                                              7
        650.801.5016
                                                              8
                                                                            EXHIBITS
        marktung@quinnemanuel.com
                                                              9 NUMBER
                                                                                 DESCRIPTION
                                                                                                       PAGE
10
                                                             10 Exhibit 325 Ramanathan R. Kavasseri's
                                                                                                        22
11
                                                             11
                                                                       Responses and Objections to
12 For the Defendant:
                                                             12
                                                                       Defendant Arista Networks'
13
        KEKER & VAN NEST LLP
                                                             13
                                                                       Subpoena to Testify at a
14
        BY: EDUARDO E. SANTACANA, Attorney at Law
                                                             14
                                                                       Deposition
15
        BY: RYAN WONG, Attorney at Law
                                                             15
16
        633 Battery Street
                                                             16 Exhibit 326 LinkedIn page for Ram
                                                                                                       24
17
        San Francisco, California 94111
                                                             17
                                                                      Kavasseri
18
        415.391.5400
                                                             18
19
        esantacana@kvn.com
                                                             19 Exhibit 327 Document headed "A Simple
                                                                                                         52
20
        rwong@kvn.com
                                                            20
                                                                      Network Management Protocol,"
21
                                                            21
                                                                      dated 8/1988,
22
                                                             22
                                                                      Bates ARISTANDCA00022432 - 2464
23
                                                            23
24
                                                            24 Exhibit 328 Document headed "Event MIB."
                                                                                                           83
25
                                                            25
                                                                      dated 10/2000
                                                     Page 3
                                                                                                                  Page 5
```

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 4 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS EYES ONLY

THORE I CONTIDENTIAL	- ATTORNETS ETES ONE I
I EXHIBITS	1 REFERENCED EXHIBITS
2 NUMBER DESCRIPTION PAGE	2 (Not attached)
3 Exhibit 329 Document headed "Commands for 94	3 Exhibit/Page
4 which Cisco listed Ramanathan	4 92 89
5 Kavasseri as 'Author/Originator'	5
6 in Cisco's response to Interrogatory	600
7 No. 16, Exhibit F (January 12, 2016)"	7
8	8
9 Exhibit 330 Document labeled "Ram Kavasseri, 101	9
10 Garry Horoupian," dated 2/8/06,	10
11 Bates CSI-CLI-00682250 - 2314	11
12	12
13 Exhibit 331 Document labeled "Parser Police: 122	13
14 Where can we go from here?"	14
15 Bates CSI-ANI-00031041 - 0032	15
	16
16	17
17 Exhibit 332 Document headed "Hot ICE Product 129	18
18 Requirements Document,"	
19 Bates CSI-CLI-00662062 - 2085	19
20	20
21 Exhibit 333 Document headed "Unprintable 132	21
22 File,"	22
23 first page Bates CSI-CLI-00358160	23
24	24
Page 6	25 Page 8
1 450 0	Tage 0
1 EXHIBITS	1 Palo Alto, California 09:21:40
2 NUMBER DESCRIPTION PAGE	2 Tuesday, February 23, 2016
3 Exhibit 334 Document headed "User-based 149	3 10:09 a.m.
4 Security Model (USM) for version 3	4
5 of the Simple Network Management	5 PROCEEDINGS 09:21:40
6 Protocol (SNMPv3)," dated 1/1998	6 THE VIDEO OPERATOR: Good morning. We are
7	7 on the record at 10:09 a.m. on February 23rd, 2016.
8 Exhibit 335 Document headed "View-based 151	8 This is the videotaped deposition of Mr. Ramanathan
9 Access Control Model (VACM) for	9 Kavasseri.
10 the Simple Network Management	10 My name is Ramon Peraza, here with our 10:09:15
Protocol (SNMP)," dated 1/1998	11 court reporter, Carla Soares. We're here from
12	12 Veritext Legal Solutions at the request of counsel
13 Exhibit 336 Document headed "An Architecture 154	13 for the defendant.
14 for Describing SNMP Management	14 This deposition is being held at Wilson
15 Frameworks," dated 1/1998	15 Sonsini in Palo Alto. The caption of this case is 10:09:26
16	16 Cisco Systems, Inc., versus Arista Networks, Inc.,
17 Exhibit 337 Document headed "Doc Number 159	17 Case No. 5:14-cv-05344-BLF (PSG).
18 ENG-28473,"	18 Please поte that audio- and
19 Bates CSI-CLI-00609071 - 9083	19 video-recording will take place unless all parties
1	15 video-recording will take place timess an parties
20	20 have agreed to go off the record. Microphones are 10:09:50
20 21 Exhibit 338 Document entitled "Cisco IOS 172	
[20 have agreed to go off the record. Microphones are 10:09:50
21 Exhibit 338 Document entitled "Cisco IOS 172	20 have agreed to go off the record. Microphones are 10:09:50 21 sensitive and may pick up whispers or private 22 conversations.
21 Exhibit 338 Document entitled "Cisco IOS 172 22 Network Management Command	20 have agreed to go off the record. Microphones are 10:09:50 21 sensitive and may pick up whispers or private 22 conversations. 23 At this time, Counsel, please identify
21 Exhibit 338 Document entitled "Cisco IOS 172 22 Network Management Command 23 Reference," dated 10/2009,	20 have agreed to go off the record. Microphones are 10:09:50 21 sensitive and may pick up whispers or private 22 conversations.
21 Exhibit 338 Document entitled "Cisco IOS 172 22 Network Management Command 23 Reference," dated 10/2009, 24 Bates CSI-CLI-00319765 - 1101	20 have agreed to go off the record. Microphones are 21 sensitive and may pick up whispers or private 22 conversations. 23 At this time, Counsel, please identify 24 yourselves for the record and state whom you

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 5 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS EYES ONLY

1 +4.			1				
1 (1)	me you worked at Cisco?	10:59:08	1	standa	rd by the IETF and i	s developed by multiple	11:02:13
2	A The definition of "team" here is vague.		2	. vendo	s, and everybody im	plements that. And many	
3	Q Okay. And I apologize. I should have		3	manag	ement protocols use	it as a standard way of	
4 as	sked you that question.		4	queryi	ng information from	devices that are	
5	So you said that when you first joined	10:59:20	5	netwoi	ked.	11:02:36	
6 C	isco, you joined the SNMP team. What did yo	ou mean	6	Q	Do you know when	SNMP was developed as	an
7 by	y that?		7	' industr	y standard protocol?)	
8	A I joined a team whose primary		8	Α	That's could you	rephrase that	
9 re	sponsibility was working to develop and mair	ntain	9	questic	n, please?		
10 th	e SNMP protocol.):59:34	10	Q	Sure.	11:03:37	
П	Q Does that team have a name?		111	,	Was SNMP an indus	try standard protocol	
12	A It's so long ago, I don't remember the		12	when y	ou started working	at Cisco?	
13 ex	act name apart from probably it was SNMP.		13	-	Yes, it was.		
14	Q It probably was not SNMP?		14			when the IETF made it an	
15	A It probably was SNMP for all I know.	10:59:51	1		y standard protocol?		59
16	Q It probably was SNMP?		16		I don't believe that i		
17	A Yeah.		1		that's a valid question		
18	Q Did that team have responsibilities other		18		Okay. Why is that?		
	an implementing the SNMP protocol?		19		I don't believe the II		
20	A Yes. 10:59:5	9				ndustry standard or not.	11:04:15
21	Q What other responsibilities did it have?	-	21		Okay.		, , ,
22	A Its responsibilities included reviewing		22		It defines the protoc	ol and it's industry	
	tensions to the SNMP protocol submitted by	other			•	ies pick it up and support	
	otocol teams within Cisco.	Ariot	24		d only after compan	ics pick it up and support	
24 pro 25	Q Did the team have any other	11:00:29	25		So SNMP was an in	dustry standard protocol	11:04:25
40	Q Did no team have any other	Page 46	4.5	V	DO DIVIVII WAS AR III	dustry standard protocor	Page 48
1 res	ponsibilities other than that?	1:00:30	1	because	e multiple vendors u	sed it? 11:0)4:28
2	•						
	A The team was encouraged to participate i	n	2	Α	•	nt version of it.	
3 the	A The team was encouraged to participate in EETF to define use standards around SNMP and the standards are standards ar		2 3		Yes, used a complia		
	EIETF to define use standards around SNMP		3	Q	Yes, used a complia Okay. And a compl	iant version was a	
4 net	EIETF to define use standards around SNMP association and standards are standards around SNMP association and standards are standards as standard association and standards are standard as standards are standards are standards as standards are standards are standards are standards as standards	and	3 4	Q version	Yes, used a complia Okay. And a compl that complied with	iant version was a the definitions IETF	
4 net 5	EIETF to define use standards around SNMP atwork management. Q Any other responsibilities?		3 4 5	Q version provide	Yes, used a compliangle of the compliangle of the complied with d?	iant version was a	
4 net 5	EIETF to define use standards around SNMP as a swork management. Q Any other responsibilities? A Not that I can recollect easily at this	and	3 4	Q version provide A	Yes, used a compliate Okay. And a compliant that complied with d?	iant version was a the definitions IETF 11:04:41	
4 net 5 6 7 tim	EIETF to define use standards around SNMP as a cover management. Q Any other responsibilities? A Not that I can recollect easily at this are.	and	3 4 5 6 7	Q version provide A Q	Yes, used a complia Okay. And a compl that complied with d? Correct. And IETF stands, ju	iant version was a the definitions IETF 11:04:41 ast so we have it on the	
4 net 5 6 7 tim 8	EIETF to define use standards around SNMP as twork management. Q Any other responsibilities? A Not that I can recollect easily at this ne. Q What does SNMP stand for?	and	3 4 5 6 7 8	Q version provide A Q record,	Yes, used a complia Okay. And a compl that complied with d? Correct. And IETF stands, ju for Internet engineer	iant version was a the definitions IETF 11:04:41 ast so we have it on the	
4 net 5 6 7 tim 8 9	ETETF to define use standards around SNMP at twork management. Q Any other responsibilities? A Not that I can recollect easily at this are. Q What does SNMP stand for? A I better nail this one, right? Simple	and I I:00:47	3 4 5 6 7 8 9	Q version provide A Q record, correct	Yes, used a compliated of that complied with degree of the complied with degree of the correct. And IETF stands, just for Internet engineers	iant version was a the definitions IETF 11:04:41 ast so we have it on the ring task force,	
4 net 5 6 7 tim 8 9 10 net	EIETF to define use standards around SNMP at twork management. Q Any other responsibilities? A Not that I can recollect easily at this are. Q What does SNMP stand for? A I better nail this one, right? Simple twork management protocol.	and	3 4 5 6 7 8 9	Q version provide A Q record, correct	Yes, used a compliated obtained that complied with decreased. And IETF stands, justifier Internet engineers. Yes.	iant version was a the definitions IETF 11:04:41 ast so we have it on the ring task force, 11:04:51	
4 net 5 6 7 tim 8 9 10 net	PIETF to define use standards around SNMP at twork management. Q Any other responsibilities? A Not that I can recollect easily at this are. Q What does SNMP stand for? A I better nail this one, right? Simple work management protocol. Q Okay. And is it fair to say that you	and 11:00:47 11:01:17	3 4 5 6 7 8 9 10	Q version provide A Q record, correct A	Yes, used a complia Okay. And a complithat complied with d? Correct. And IETF stands, ju for Internet engineer? Yes. You said that you w	the definitions IETF 11:04:41 ast so we have it on the ring task force, 11:04:51 ere encouraged or your	
4 net 5 6 7 tim 8 9 10 net 11 12 firs	ETETF to define use standards around SNMP at twork management. Q Any other responsibilities? A Not that I can recollect easily at this ne. Q What does SNMP stand for? A I better nail this one, right? Simple twork management protocol. Q Okay. And is it fair to say that you at became familiar with the protocol when you	and 11:00:47 11:01:17	3 4 5 6 7 8 9 10 11 12	Q version provide A Q record, correct A Q team w	Yes, used a complia Okay. And a complithat complied with d? Correct. And IETF stands, ju for Internet engineer? Yes. You said that you was encouraged to par	iant version was a the definitions IETF 11:04:41 ast so we have it on the ring task force, 11:04:51	
4 net 5 6 7 tim 8 9 10 net 11 12 firs star	ETETF to define use standards around SNMP at twork management. Q Any other responsibilities? A Not that I can recollect easily at this are. Q What does SNMP stand for? A I better nail this one, right? Simple work management protocol. Q Okay. And is it fair to say that you at became familiar with the protocol when you red working at Cisco?	and 11:00:47 11:01:17	3 4 5 6 7 8 9 10 11 12 13	Q version provide A Q record, correct' A Q team w A	Yes, used a compliated of that complied with description. And IETF stands, justification for Internet engineers and that you was encouraged to par Correct.	iant version was a the definitions IETF 11:04:41 ast so we have it on the ring task force, 11:04:51 ere encouraged or your ticipate in IETF, correct?	
4 net 5 6 7 tim 8 9 10 net 11 12 firs 13 stan	EIETF to define use standards around SNMP at twork management. Q Any other responsibilities? A Not that I can recollect easily at this are. Q What does SNMP stand for? A I better nail this one, right? Simple twork management protocol. Q Okay. And is it fair to say that you at became familiar with the protocol when you reted working at Cisco? A That is correct.	and 11:00:47 11:01:17	3 4 5 6 7 8 9 10 11 12 13	Q version provide A Q record, correct' A Q team w A	Yes, used a compliated with decomplied with decomplied with decorrect. And IETF stands, justifier Internet engineers and that you was encouraged to particults. Was there a particults.	iant version was a the definitions IETF 11:04:41 ast so we have it on the ring task force, 11:04:51 ere encouraged or your rticipate in IETF, correct?	1-05-40
4 net 5 6 7 tim 8 9 10 net 11 12 firs 13 stan	EIETF to define use standards around SNMP at twork management. Q Any other responsibilities? A Not that I can recollect easily at this are. Q What does SNMP stand for? A I better nail this one, right? Simple twork management protocol. Q Okay. And is it fair to say that you at became familiar with the protocol when you arted working at Cisco? A That is correct. Q Okay. While you were working at Cisco.	and 11:00:47 11:01:17	3 4 5 6 7 8 9 10 11 12 13 14	Q version provide A Q record, correct A Q team w A Q that you	Yes, used a compliant occupied with a complied with a correct. And IETF stands, justifier Internet engineer of the course of th	iant version was a the definitions IETF 11:04:41 ast so we have it on the ring task force, 11:04:51 ere encouraged or your rticipate in IETF, correct?	1:05:49
4 net 5 6 7 tim 8 9 10 net 11 12 firs 13 star 14 15	EIETF to define use standards around SNMP at work management. Q Any other responsibilities? A Not that I can recollect easily at this are. Q What does SNMP stand for? A I better nail this one, right? Simple work management protocol. Q Okay. And is it fair to say that you at became familiar with the protocol when you red working at Cisco? A That is correct. Q Okay. While you were working at Cisco, you become familiar with any other routing	and 11:00:47 11:01:17	3 4 5 6 7 8 9 10 11 12 13 14 15	Q version provide A Q record, correct A Q team w A Q that you subject	Yes, used a complia Okay. And a complia that complied with d? Correct. And IETF stands, ju for Internet engineer? Yes. You said that you was encouraged to par Correct. Was there a particular were encouraged to area?	iant version was a the definitions IETF 11:04:41 ast so we have it on the ring task force, 11:04:51 ere encouraged or your rticipate in IETF, correct?	1:05:49
4 net 5 6 7 tim 8 9 10 net 11 12 firs 13 star 14 15 16 did 17 pro	ETETF to define use standards around SNMP at twork management. Q Any other responsibilities? A Not that I can recollect easily at this are. Q What does SNMP stand for? A I better nail this one, right? Simple twork management protocol. Q Okay. And is it fair to say that you at became familiar with the protocol when you tred working at Cisco? A That is correct. Q Okay. While you were working at Cisco, you become familiar with any other routing tocols as part of your work?	and 11:00:47 11:01:17	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q version provide A Q record, correct A Q team w A Q that you subject A	Yes, used a complia Okay. And a complia that complied with d? Correct. And IETF stands, ju for Internet engineer? Yes. You said that you was encouraged to par Correct. Was there a particular were encouraged to area? SNMP.	iant version was a the definitions IETF 11:04:41 ast so we have it on the ring task force, 11:04:51 ere encouraged or your rticipate in IETF, correct?	1:05:49
4 net 5 6 7 tim 8 9 9 110 net 111 122 firs 113 star 14 15 16 did 17 pro 18	ETETF to define use standards around SNMP at twork management. Q Any other responsibilities? A Not that I can recollect easily at this are. Q What does SNMP stand for? A I better nail this one, right? Simple work management protocol. Q Okay. And is it fair to say that you at became familiar with the protocol when you red working at Cisco? A That is correct. Q Okay. While you were working at Cisco, you become familiar with any other routing tocols as part of your work? A Not that I recall right away, but I'm	and 11:00:47 11:01:17	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q version provide A Q record, correct' A Q team w A Q that you subject A Q	Yes, used a complia Okay. And a compliant complied with delay? Correct. And IETF stands, jutter for Internet engineers? Yes. You said that you was encouraged to part Correct. Was there a particular were encouraged to area? SNMP. Yes?	iant version was a the definitions IETF 11:04:41 ast so we have it on the ring task force, 11:04:51 ere encouraged or your rticipate in IETF, correct?	1:05:49
4 net 5 6 7 tim 8 9 9 110 net 11 112 firs 113 star 114 115 116 did 17 pro 18 19 pre	EIETF to define use standards around SNMP at twork management. Q Any other responsibilities? A Not that I can recollect easily at this are. Q What does SNMP stand for? A I better nail this one, right? Simple twork management protocol. Q Okay. And is it fair to say that you at became familiar with the protocol when you ted working at Cisco? A That is correct. Q Okay. While you were working at Cisco, you become familiar with any other routing tocols as part of your work? A Not that I recall right away, but I'm try sure based on the nature of my work that I	11:00:47 11:01:17	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q version provide A Q record, correct' A Q team w A Q that you subject A Q A	Yes, used a complia Okay. And a compliant complied with decomplied with decorrect. And IETF stands, justifier Internet engineer of the contract of the contract of the contract of the contract. Was there a particular were encouraged to area? SNMP. Yes? Yes.	iant version was a the definitions IETF 11:04:41 ast so we have it on the ring task force, 11:04:51 ere encouraged or your tricipate in IETF, correct? ar group at the IETF o participate in, or	
4 net 5 6 7 tim 8 9 9 110 net 111 112 firs 113 star 114 115 116 did 17 pro 118 119 pre 120 wow	EIETF to define use standards around SNMP at work management. Q Any other responsibilities? A Not that I can recollect easily at this are. Q What does SNMP stand for? A I better nail this one, right? Simple work management protocol. Q Okay. And is it fair to say that you at became familiar with the protocol when you need working at Cisco? A That is correct. Q Okay. While you were working at Cisco, you become familiar with any other routing tocols as part of your work? A Not that I recall right away, but I'm tty sure based on the nature of my work that I all dhave interacted with multiple protocols.	11:00:47 11:01:17	3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q version provide A Q record, correct A Q team w A Q that you subject A Q A Q	Yes, used a complia Okay. And a complia Okay. And a compl that complied with d? Correct. And IETF stands, ju for Internet engineer Yes. You said that you w as encouraged to par Correct. Was there a particula were encouraged to area? SNMP. Yes? Yes. SNMP. Anything el	iant version was a the definitions IETF 11:04:41 ast so we have it on the ring task force, 11:04:51 ere encouraged or your rticipate in IETF, correct? ar group at the IETF o participate in, or	
4 net 5 6 7 tim 8 9 110 net 111 12 firs 13 star 14 15 16 did 17 pro 18 19 pre 20 woo	EIETF to define use standards around SNMP at work management. Q Any other responsibilities? A Not that I can recollect easily at this are. Q What does SNMP stand for? A I better nail this one, right? Simple work management protocol. Q Okay. And is it fair to say that you at became familiar with the protocol when you are dworking at Cisco? A That is correct. Q Okay. While you were working at Cisco, you become familiar with any other routing tocols as part of your work? A Not that I recall right away, but I'm try sure based on the nature of my work that I and have interacted with multiple protocols. The cific ones don't jump to mind.	11:00:47 11:01:17	3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q version provide A Q record, correct A Q team w A Q that you subject A Q A Q A	Yes, used a complia Okay. And a complia Okay. And a compl that complied with d? Correct. And IETF stands, ju for Internet engineer ? Yes. You said that you w as encouraged to par Correct. Was there a particula t were encouraged to area? SNMP. Yes? Yes. SNMP. Anything el Not explicitly encou	iant version was a the definitions IETF 11:04:41 Ist so we have it on the ring task force, 11:04:51 ere encouraged or your ticipate in IETF, correct? ar group at the IETF o participate in, or se? 11:06 raged, as far as 1	
4 net 5 5 6 7 tim 8 9 9 110 net 11 112 firs 113 star 114 115 5 16 did 17 pro 18 119 pre 20 wood 21 spe 22	EIETF to define use standards around SNMP at work management. Q Any other responsibilities? A Not that I can recollect easily at this are. Q What does SNMP stand for? A I better nail this one, right? Simple work management protocol. Q Okay. And is it fair to say that you at became familiar with the protocol when you need working at Cisco? A That is correct. Q Okay. While you were working at Cisco, you become familiar with any other routing tocols as part of your work? A Not that I recall right away, but I'm try sure based on the nature of my work that I all dhave interacted with multiple protocols. To cific ones don't jump to mind. Q Is SNMP an industry standard protocol?	11:00:47 11:01:17	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q version provide A Q record, correct A Q team w A Q that you subject A Q A Q A know.	Yes, used a complia Okay. And a complia Okay. And a compl that complied with d? Correct. And IETF stands, ju for Internet engineer ? Yes. You said that you w as encouraged to par Correct. Was there a particula t were encouraged to area? SNMP. Yes? Yes. SNMP. Anything el Not explicitly encou	iant version was a the definitions IETF 11:04:41 ast so we have it on the ring task force, 11:04:51 ere encouraged or your rticipate in IETF, correct? ar group at the IETF o participate in, or	
4 net 5 6 7 tim 8 9 9 110 net 111 12 firs 113 star 114 115 116 did 117 pro 118 119 pre 20 wor 21 spe 22 23	ETETF to define use standards around SNMP at twork management. Q Any other responsibilities? A Not that I can recollect easily at this are. Q What does SNMP stand for? A I better nail this one, right? Simple twork management protocol. Q Okay. And is it fair to say that you at became familiar with the protocol when you at became familiar with the protocol when you at became familiar with the protocol when you at became familiar with any other routing at Cisco? A That is correct. Q Okay. While you were working at Cisco, you become familiar with any other routing tocols as part of your work? A Not that I recall right away, but I'm try sure based on the nature of my work that I all have interacted with multiple protocols. The cific ones don't jump to mind. Q Is SNMP an industry standard protocol? A Yes, it is.	11:00:47 11:01:17	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q version provide A Q record, correct' A Q team w A Q that you subject A Q A know.	Yes, used a complia Okay. And a complia that complied with d? Correct. And IETF stands, ju for Internet engineer? Yes. You said that you was encouraged to par Correct. Was there a particular were encouraged to area? SNMP. Yes? Yes. SNMP. Anything el Not explicitly encounout discouraged, either that complete the county of t	iant version was a the definitions IETF 11:04:41 ast so we have it on the ring task force, 11:04:51 ere encouraged or your rticipate in IETF, correct? ar group at the IETF o participate in, or se? 11:06 raged, as far as 1 her. So very neutral on	
4 net 5 6 7 tim 8 9 10 net 11 12 firs 13 star 14 15 16 did 17 pro 18 19 pre 20 wor 21 spe 22 23 24	EIETF to define use standards around SNMP at work management. Q Any other responsibilities? A Not that I can recollect easily at this are. Q What does SNMP stand for? A I better nail this one, right? Simple work management protocol. Q Okay. And is it fair to say that you at became familiar with the protocol when you need working at Cisco? A That is correct. Q Okay. While you were working at Cisco, you become familiar with any other routing tocols as part of your work? A Not that I recall right away, but I'm try sure based on the nature of my work that I all dhave interacted with multiple protocols. To cific ones don't jump to mind. Q Is SNMP an industry standard protocol?	11:00:47 11:01:17	3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q version provide A Q record, correct A Q team w A Q that you subject A Q A know. that. Q	Yes, used a complia Okay. And a complia that complied with d? Correct. And IETF stands, ju for Internet engineer? Yes. You said that you was encouraged to par Correct. Was there a particular were encouraged to area? SNMP. Yes? Yes. SNMP. Anything el Not explicitly encounout discouraged, either that complete the county of t	iant version was a the definitions IETF 11:04:41 Ist so we have it on the ring task force, 11:04:51 ere encouraged or your ticipate in IETF, correct? ar group at the IETF o participate in, or se? 11:06 raged, as far as 1	:09

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 6 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS EYES ONLY

	INGILI CON IDENTIAL	7		
1	Q Sure. 11:37:17	1 don'	t recall the features that I was working on, so	11:40:26
2	The functional specifications that you	2 I do	n't recall specifically what I would have done	
3	reviewed when developing SNMP features, would that	3 to co	ompare.	
4	specification have been written by someone at Cisco?	4 (Q I see.	
5	5 A Yes. 11:37:27	5	Was it part of your process in developing	11:40:35
6	Q And did you were you involved in	6 featu	ures to review what other vendors were doing to	
7	writing any functional specifications?	7 impl	lement the same features?	
8	A Yes, I was.	8 4	A Other so in the space that we worked	
9	Q Was that for the features that you were	9 with	SNMP, vendors contributed to the IETF docum	ent
10	implementing? 11:37:36	10 so it	wasn't as necessary to look at their	:40:59
11	A Yes, it was. Yes, it was.	11 impl	ementations because they were there telling us	
12	Q Do you recall right now which functional	12 what	t they were trying to build. That was the whole	
13	specifications you may have written?	13 poin	t of building an industry standard.	
14	A Not off the top of my head, no.	14	Also, Cisco was on the leading edge of	
15			ementing the protocols as they were being	11:41:11
16	IETF documents?	•	loped. In a few cases, we would have the	
17	A As far as I recall, no.		ementations before the protocols were released	
18	•		use we were helping author the protocol.	
	were implementing SNMP features?	19	So at that point, looking at other vendors	
20	A That is a broad question. If the feature 11:38:12		not possible because they had not done the	11:41:24
	had anything specific to do with an IETF document,		ementations or released the implementations,	
	then yes, I would have had to review the document to	•	h is why I was being very specific in saying, I	
	make sure I was implementing it correctly, "it"		recall the exact features I was working on.	
	being whatever I was working on.	24	But my answer would change depending on	
25	Q Okay. And that is something you would 11:38:26 Page 62		I was working on and depending on whether	11:41:3 Page 6
ı	have reviewed an IETF document relating to a feature 11:38:31	1 some	body had done something in the field.	11:41:40
2	you were implementing before you implemented the		1 understand.	
3	feature; is that right?	3	Who else worked on the team that was	
4	A If there was an IETF document associated	4 imple	ementing SNMP features at Cisco?	
5	with what I was working on and I was required to 11:38:41	5 A	I don't remember all the names, but my	11:41:58
	implement part or the whole part of that IETF	6 mana	ger was John Hopprich. My technical lead and	
7	document, then yes, I would have reviewed that IETF		or, Jeff Jeffrey Johnson. I had it for a	
8	document before I implemented the feature.		ent and it went away there. Sandra Durham was	}
9	Q Were there features that you developed at		f my peers.	
	Cisco relating to SNMP that were not defined by an 11:38:56	10	Anke Dosedal was also one of my team	11:42:34
	IETF document?		bers. Robert Stewart, who went by the moniker	
1		11 members		
	A I don't have specifics, but I think that's			
2	A I don't have specifics, but I think that's a fair generalization, that there are parts of		Bob Stewart, was also one of my peers.	
2	a fair generalization, that there are parts of	12 Bob, 1	Bob Stewart, was also one of my peers. Hold on. There's one more. Scott	
2 3 4	a fair generalization, that there are parts of our the Cisco SNMP implementation that were not	12 Bob, 13 14 Mord	Bob Stewart, was also one of my peers. Hold on. There's one more. Scott ock, M-O-R-D-O-C-K. Now, I can't recall if	11:43:03
2 3 4 5	a fair generalization, that there are parts of our the Cisco SNMP implementation that were not described in any part of any IETF document because 11:39:32	12 Bob, 13 14 Mord 15 Scott	Bob Stewart, was also one of my peers. Hold on. There's one more. Scott ock, M-O-R-D-O-C-K. Now, I can't recall if was on the team when I joined or joined later.	11:43:03
2 3 4 5	a fair generalization, that there are parts of our the Cisco SNMP implementation that were not described in any part of any IETF document because it was internal to how our product worked at the	12 Bob, 13 14 Mord 15 Scott 16 He wa	Bob Stewart, was also one of my peers. Hold on. There's one more. Scott ock, M-O-R-D-O-C-K. Now, I can't recall if was on the team when I joined or joined later. as I think at Cisco when I joined, but I'm not	11:43:03
2 3 4 5 6	a fair generalization, that there are parts of our the Cisco SNMP implementation that were not described in any part of any IETF document because it was internal to how our product worked at the time.	12 Bob, 13 14 Mord 15 Scott 16 He wa 17 sure a	Bob Stewart, was also one of my peers. Hold on. There's one more. Scott ock, M-O-R-D-O-C-K. Now, I can't recall if was on the team when I joined or joined later. as I think at Cisco when I joined, but I'm not at what point he was part of the SNMP team or	11:43:03
2 3 4 5 6 7	a fair generalization, that there are parts of our the Cisco SNMP implementation that were not described in any part of any IETF document because it was internal to how our product worked at the time. Q So okay. When you were developing	12 Bob, 1 13 14 Mord 15 Scott 16 He wa 17 sure a 18 not. I	Bob Stewart, was also one of my peers. Hold on. There's one more. Scott ock, M-O-R-D-O-C-K. Now, I can't recall if was on the team when I joined or joined later. as I think at Cisco when I joined, but I'm not at what point he was part of the SNMP team or Long time ago.	11:43:03
2 3 4 5 6 7 8	a fair generalization, that there are parts of our the Cisco SNMP implementation that were not described in any part of any IETF document because it was internal to how our product worked at the time. Q So okay. When you were developing features related to SNMP at Cisco, did you also	12 Bob, 13 14 Mord 15 Scott 16 He was 17 sure a 18 not. I	Bob Stewart, was also one of my peers. Hold on. There's one more. Scott ock, M-O-R-D-O-C-K. Now, I can't recall if was on the team when I joined or joined later. as I think at Cisco when I joined, but I'm not at what point he was part of the SNMP team or Long time ago. So those are the names that come to mind.	
2 3 4 5 6 7 8 9	a fair generalization, that there are parts of our the Cisco SNMP implementation that were not described in any part of any IETF document because 11:39:32 it was internal to how our product worked at the time. Q So okay. When you were developing features related to SNMP at Cisco, did you also review what other vendors were doing? 11:40:04	12 Bob, 13 14 Mord 15 Scott 16 He wa 17 sure a 18 not. I 19 20 Q	Bob Stewart, was also one of my peers. Hold on. There's one more. Scott ock, M-O-R-D-O-C-K. Now, I can't recall if was on the team when I joined or joined later. as I think at Cisco when I joined, but I'm not at what point he was part of the SNMP team or Long time ago. So those are the names that come to mind. What was John Hopprich's role on the team?	11:43:03 11:43:23
2 3 4 5 6 7 8 9	a fair generalization, that there are parts of our the Cisco SNMP implementation that were not described in any part of any IETF document because 11:39:32 it was internal to how our product worked at the time. Q So okay. When you were developing features related to SNMP at Cisco, did you also review what other vendors were doing? 11:40:04 MR. TUNG: Objection. Vague.	12 Bob, 13 14 Mord 15 Scott 16 He wa 17 sure a 18 not. I	Bob Stewart, was also one of my peers. Hold on. There's one more. Scott ock, M-O-R-D-O-C-K. Now, I can't recall if was on the team when I joined or joined later. as I think at Cisco when I joined, but I'm not at what point he was part of the SNMP team or cong time ago. So those are the names that come to mind. What was John Hopprich's role on the team? He was my manager.	
2 3 4 5 6 7 8 9	a fair generalization, that there are parts of our the Cisco SNMP implementation that were not described in any part of any IETF document because 11:39:32 it was internal to how our product worked at the time. Q So okay. When you were developing features related to SNMP at Cisco, did you also review what other vendors were doing? 11:40:04 MR. TUNG: Objection. Vague. THE WITNESS: I do not recall.	12 Bob, 13 14 Mord 15 Scott 16 He wa 17 sure a 18 not. I 19 20 Q 21 A 22 Q	Bob Stewart, was also one of my peers. Hold on. There's one more. Scott ock, M-O-R-D-O-C-K. Now, I can't recall if was on the team when I joined or joined later. as I think at Cisco when I joined, but I'm not at what point he was part of the SNMP team or Long time ago. So those are the names that come to mind. What was John Hopprich's role on the team? He was my manager. And were the rest of the names, apart from	
12 3 4 5 6 7 8 9 11 12 3	a fair generalization, that there are parts of our the Cisco SNMP implementation that were not described in any part of any IETF document because 11:39:32 it was internal to how our product worked at the time. Q So okay. When you were developing features related to SNMP at Cisco, did you also review what other vendors were doing? 11:40:04 MR. TUNG: Objection. Vague. THE WITNESS: I do not recall. BY MR. SANTACANA:	12 Bob, 13 14 Mord 15 Scott 16 He wa 17 sure a 18 trot. I 19 20 Q 21 A 22 Q 23 John I	Bob Stewart, was also one of my peers. Hold on. There's one more. Scott ock, M-O-R-D-O-C-K. Now, I can't recall if was on the team when I joined or joined later. as I think at Cisco when I joined, but I'm not at what point he was part of the SNMP team or cong time ago. So those are the names that come to mind. What was John Hopprich's role on the team? He was my manager. And were the rest of the names, apart from Hopprich and Jeff Johnson, were they also	
12 3 4 5 6 7 8 9	a fair generalization, that there are parts of our the Cisco SNMP implementation that were not described in any part of any IETF document because 11:39:32 it was internal to how our product worked at the time. Q So okay. When you were developing features related to SNMP at Cisco, did you also review what other vendors were doing? 11:40:04 MR. TUNG: Objection. Vague. THE WITNESS: I do not recall.	12 Bob, 13 14 Mord 15 Scott 16 He wa 17 sure a 18 not. I 19 20 Q 21 A 22 Q 23 John I 24 softwa	Bob Stewart, was also one of my peers. Hold on. There's one more. Scott ock, M-O-R-D-O-C-K. Now, I can't recall if was on the team when I joined or joined later. as I think at Cisco when I joined, but I'm not at what point he was part of the SNMP team or Long time ago. So those are the names that come to mind. What was John Hopprich's role on the team? He was my manager. And were the rest of the names, apart from	

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 7 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS EYES ONLY

1 Q If you take a look at the last command in 14:41:36	1 at 2:44 p.m. 14:44:02
2 this table, "snmp-server user," do you know whether	2 (Recess, 2:44 p.m 3:05 p.m.)
3 you authored that command?	3 THE VIDEO OPERATOR: We are back on the
4 A Define what you mean by "authored that	4 record at 3:05 p.m.
5 command." 14:41:55	5 BY MR. SANTACANA; 15:05:39
6 Q Do you know whether you are the one who	6 Q Mr. Kavasseri, we left off talking about
7 came up with the sequence of words that resulted in	7 the "sninp-server user" command, and you testified
8 this command, "sninp-server user"?	8 that "snmp-server" came from a prior command in IOS
9 A I cannot be definitive about it.	9 at the time?
10 Q Who else do you recall working with on 14:42:07	10 A No, I said that I don't know how it came 15:05:56
11 this project that resulted in these eight commands?	11 about. It was already there when I joined Cisco.
12 A I would probably have reviewed this with	12 Q And its inclusion in this command for
13 my team members. And so I can't the reason I	13 which you are named the author, it's included there
14 answered the way I did is, I don't know if I came up	14 because it was already part of IOS?
15 with the word "user" or somebody else came up with 14:42:25	15 A It was a root part of the command to which 15:06:12
16 the word "user." So I'm not sure in hindsight.	16 I added extensions.
17 Q Did you come up with the term	17 Q And the root was in IOS before you started
18 "sninp-server"?	18 working at Cisco?
19 A Absolutely not.	19 A To the best of my knowledge, it was
Q Okay. How do you know that? 14:42:39	20 already there before I started. 15:06:23
21 A It was there before I joined.	Q And the term "user" is a term that comes
22 Q It was where?	22 from the SNMP industry standard?
A It was in the IOS CLI before I joined	A I'm not sure I'd say it exactly that way.
24 Cisco.	24 The term "user" relates to parts of the SNMP V3
Q Okay. And so the addition to that term 14:42:48 Page 146	25 protocol, yes. 15:06:48 Page 14
1 that was new was the word "user"? 14:42:52	1 Q Is that a term that the protocol uses? 15:06:49
2 A Yes	2 A I believe so, but 1 if you have a copy
3 Q Okay And do you know where that word	3 of the reference, I could take a look.
4 came from?	4 Q Sure. Of course.
5 A The SNMP V3 protocol specification has a 14:43:00	5 THE VIDEO OPERATOR: Exhibit 334. 15:07:03
6 definition of roles, if I remember right, and users	6 (Exhibit 334 was marked for identification
7 and groups are in the protocol	7 and is attached hereto.)
8 Q So the term "user" came from the	8 BY MR. SANTACANA:
9 protocol came from the industry standard	9 Q Exhibit 334 is RFC 2274 titled "User-based
10 protocol? 14:43:21	10 Security Model (USM) for version 3 of the Simple 15:07:17
1 A Yes	11 Network Management Protocol (SNMP V3)."
2 MR TUNG: Objection Mischaracterizes	Do you know, sir, if this is an RFC that
3 THE WITNESS: It referred to what was in	13 you reviewed when you were
4 the protocol, yes	14 A Yes. Let me I'm pretty sure this was
5 BY MR SANTACANA: 14:43:29	15 an RFC I reviewed because I ended up implementing 15:07:
6 Q And the protocol uses the word "user"?	16 parts of it.
7 A I've got to go read the protocol to be	17 Q And just to be clear, it's an RFC that you
8 absolutely sure	18 reviewed when you were implementing the eight
9 Q Okay	19 commands in Exhibit 329?
0 A After this, can we take a break? 14:43:51	20 A Seven. I'm not sure about "snmp host." 15:07:53
	Q Okay. So this is something you would have
1 Q Of course	
-	22 reviewed before you proposed those command names?
12 If you want, we can take a break right	22 reviewed before you proposed those command names? 23 A Yes, that's correct.
2 If you want, we can take a break right 3 now	

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 8 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS EYES ONLY

r			
1	uses it? 15:08:17	1	Q Is this a document you reviewed when you 15:12:26
2			were preparing to implement the commands in
3		3	Exhibit 329?
4		4	A I believe it would have been something I
1.	5 please? 15:09:11	İ	reviewed before I implemented the commands 15:12:35
6		6	Q And if you flip to page 3 of the document,
	term "user" the same way that you used the term	1	under Section 2 1 titled "Groups," the first
	"user" in "snmp-server user"?	1	paragraph defines the term "group" as follows: "A
9		1	group is a set of zero or more securityModel,
1		1	securityName tuples on whose behalf SNMP management 15:12:55
1	the same entity in both cases. But the document		objects can be accessed A group defines the access
1	does not tell me there needs to be a command called	ļ	rights afforded to all securityNames which belong to
13	1		that group "
14		14	Does this RFC use the term "group" the
15	•		same way that you were using it in your "snmp-server 15:13:08
16	1		group" command?
17		17	A I believe so
18	A In which context?	18	Q What does the "snmp-server group" command
19	Q In the context of this "snmp-server user"	19 (
20		20	A Actually, even reading this document 15:13:26
21	A As I responded earlier, I'm not sure how	_	probably won't tell me because I need to see all the
i	the term "user" came about, whether it was due to a		telp extensions to see what it does
23		23	Q Okay
l	somebody else did.	24	A So it's been a while
25	Q Okay. I'd like to direct your attention 15:10:50 Page 150	25	Q You don't recall what it does? 15:13:34 Page 152
1	now to "snmp-server group," which is the next row 15:10:53	1	A No. 15:13:35
2	up.	2	Q Okay. Do you recall what "snmp-server
3	A Yealt.		iser" does?
4	Q As you've testified, "snmp-server" was a	4	A I would rather not guess at this point.
	term that was a root already present in IOS at this 15:11:03		t's been years since I used these commands. 15:13:45
	time; is that correct?	6	I probably would be able to figure it out
7	A Yes,		within about 25 minutes of touching the CLI, but
8	Q The term "group," did that come from IOS		t's really old, old stuff.
	as well or did it come from somewhere else?	9	Q I understand.
10	A I believe there was a concept of "group" 15:11:20	10	I'd like to turn your attention now to the 15:14:14
	in this document. Let me look through it one more		wo commands right above that, "snmp-server engineID
	time.		ocal" and "snmp-server engineID remote."
13	Q I think you'll have more luck with this	13	Did you author those commands?
	One.	14	A I think I have a strong recollection that
15	A Yeah, there may be a separate document for 15:11:48		had more to do with these commands; in part, the 15:14:32
	that.		act that there was the ID which is upper case,
17	(Exhibit 335 was marked for identification		which is usually not what we do in these IOS CLI
18	and is attached hereto.)		commands. It stands out.
	BY MR. SANTACANA:	19	Q Typically in IOS CLI you weren't
20	Q Exhibit 335 is RFC 2275 entitled 15:12:02		ccustomed to seeing letters capitalized like they 15:14:52
	"View-based Access Control Models (VACM) for the		re in the term "engineID"?
	Simple Network Management Protocol (SNMP)." It's	22	A Yes.
	dated January 1998.	23	Q Why were they capitalized here?
24	Do you recognize this document, sir?	24	A I have no idea why I capitalized them.
25	A Yes, I do. 15:12:25	25	Q Okay. 15:15:07
	Page 151		Page 153

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 9 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 9 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS EYES ONLY

,	36 was marked for identification	09:11:58	1		me way as the commands in Exhibit 329?	15:18:29
2 and is attach	ed hereto.)		2		No, it is not.	
3 BY MR. SANT.	ACANA:		3	Q	And that's because the E is capitalized?	
4 Q I'm hand	ing you what's been marked as		4	· A	Yes.	
5 Exhibit 336, wh	ich is RFC 2271, dated January 19	98. 15:15:10	5	Q	Okay. The capital ID that you find	15:18:38
6 It's titled "An are	chitecture for Describing SNMP		6	memo	rable in the commands in Exhibit 329 is th	e same
7 Management Fra	ımeworks."		7	capita	ID as on this page 36 of	
8 Do you re	cognize this document?		8	Α	Correct.	
9 A It's been	a long time. And while the view		9	Q	this RFC?	
	g immediate memories, this is	15:15:42	10	Α	Correct. 15:18:5	1
11 probably this	doesn't bring back immediate		11	Q	Does that refresh your recollection as to	
12 memories, but I'	n sure I read it at some point.		12	why "	engineID" is the way it is in Exhibit 329?	
	sure you read it		13	-	No.	
14 A I soaked	·		14	0	Okay.	
		5:54	15	_	Because if ID capitalized is from here,	15:19:03
1	I assume I read it. I'm not		1		is I think where you're leading me to, I'm	
17 sure. It's been a			1		oning why E is also not capitalized, or S is	
	locument you would have reviewed	ď	1	•	oitalized.	
_	nting the commands in Exhibit 329		19	-	The term here has no spaces in it; is that	
	ay yes, though there might be	15:16:21		right?	15:19:20	
	that match more to the proxy that's		21		"SnmpEngineID," no, it has no spaces in	
	• •	5	22		Shinpengmend, no, a has no spaces in	
22 described in the					A 4 O	
	e of this, yes, I probably would		23		And as a software engineer, would it be	
24 have read to imp					say that the reason the E is capitalized	15 10 20
25 Q If you cou	ald flip to page sorry 15	5:16:35 Page 154	25	here is	because there is no space but it's the	15:19:32 Page 156
1 page 36. About	a fifth of the way down the page,	15:16:38	1	beginn	ing of a new term? In other words, it's	15:19:36
2 there's two dashe	s, and it says, "Textual		2	Camel	Case?	
3 Conventions use	d in the SNMP Management		3	Α	It is CamelCase.	
4 Architecture."		:	4	Q	But in the Exhibit 329, there's a space,	
5 Do you see	e that? 15:16:5	5	5	so it's i	0 10	
6 A Yeah.					not in CamelCase; is that right?	15:19:45
7 O What is v			6	A	Yeah. But if it was not if we were	15:19:45
	our understanding as someone who	o				15:19:45
	our understanding as someone who n the IETF process of the phrase	0	7	using (Yeah. But if it was not if we were	15:19:45
8 has participated i	ū		7	using (other q	Yeah. But if it was not if we were CamelCase, why isn't E capitalized is the	15:19:45
8 has participated i	n the IETF process of the phrase		7 8	using (other q Q	Yeah. But if it was not if we were CamelCase, why isn't E capitalized is the uestion, right?	
8 has participated i 9 "textual conventi 10 architecture"?	n the IETF process of the phrase ons used in the SNMP managemer		7 8 9 10	using (other q Q A	Yeah. But if it was not if we were CamelCase, why isn't E capitalized is the uestion, right? Why isn't the E capitalized?	
8 has participated i 9 "textual conventi 10 architecture"? 11 A It in this c	n the IETF process of the phrase ons used in the SNMP managemer 15:17:12	nt	7 8 9 10	using Cother q Q A becaus	Yeah. But if it was not if we were CamelCase, why isn't E capitalized is the uestion, right? Why isn't the E capitalized? So in Exhibit 329, it's not pure CamelCase	
8 has participated i 9 "textual conventi 10 architecture"? 11 A It in this o 12 human-readable	n the IETF process of the phrase ons used in the SNMP managemer 15:17:12 tase to me would refer to a	nt	7 8 9 10 11	using (other q) Q A becaus	Yeah. But if it was not if we were CamelCase, why isn't E capitalized is the uestion, right? Why isn't the E capitalized? So in Exhibit 329, it's not pure CamelCase e "engineID," the first E is not capitalized.	
8 has participated i 9 "textual conventi 10 architecture"? 11 A It in this o 12 human-readable : 13 type, and semant	on the IETF process of the phrase ons used in the SNMP managemen 15:17:12 case to me would refer to a string representing a particular data ics around the use of that	nt	7 8 9 10 11 12	using (other q) Q A becaus	Yeah. But if it was not if we were CamelCase, why isn't E capitalized is the uestion, right? Why isn't the E capitalized? So in Exhibit 329, it's not pure CamelCase e "engineID," the first E is not capitalized. That's exactly my point. You didn't use Case in Exhibit 329, in the commands in	
8 has participated if 9 "textual conventif 10 architecture"? 11 A It in this of 12 human-readable if 13 type, and semant 14 particular data ty	n the IETF process of the phrase ons used in the SNMP managemer 15:17:12 case to me would refer to a string representing a particular data ics around the use of that pe.	nt	7 8 9 10 11 12	using Cother q Q A becaus Q Camelo	Yeah. But if it was not if we were CamelCase, why isn't E capitalized is the uestion, right? Why isn't the E capitalized? So in Exhibit 329, it's not pure CamelCase e "engineID," the first E is not capitalized. That's exactly my point. You didn't use Case in Exhibit 329, in the commands in t 329.	
8 has participated if 9 "textual conventi 10 architecture"? 11 A It in this of 12 human-readable if 13 type, and semant 14 particular data ty 15 Q So this RI	n the IETF process of the phrase ons used in the SNMP managemer 15:17:12 case to me would refer to a string representing a particular data ics around the use of that pe.	nt a	7 8 9 10 11 12 13 14	using Cother q Q A becaus Q Camelo Exhibit	Yeah. But if it was not if we were CamelCase, why isn't E capitalized is the uestion, right? Why isn't the E capitalized? So in Exhibit 329, it's not pure CamelCase e "engineID," the first E is not capitalized. That's exactly my point. You didn't use Case in Exhibit 329, in the commands in t 329. In Exhibit 329, I'm not sure how	e 15:19:56
8 has participated if 9 "textual conventifont architecture"? 11 A It in this of 12 human-readable of 13 type, and semant 14 particular data ty 15 Q So this RI 16 those textual conventions.	on the IETF process of the phrase ons used in the SNMP managemen 15:17:12 case to me would refer to a string representing a particular data ics around the use of that pe. FC defines semantically what ventions are; is that fair to say?	nt a	7 8 9 10 11 12 13 14 15	using Cother q Q A becaus Q Camelo Exhibit A	Yeah. But if it was not if we were CamelCase, why isn't E capitalized is the uestion, right? Why isn't the E capitalized? So in Exhibit 329, it's not pure CamelCase e "engineID," the first E is not capitalized. That's exactly my point. You didn't use Case in Exhibit 329, in the commands in a 329. In Exhibit 329, I'm not sure how eID" came out with a capital ID. It could	e 15:19:56
8 has participated if 9 "textual convention architecture"? 11 A It in this convention is 12 human-readable: 13 type, and semant 14 particular data ty 15 Q So this RI 16 those textual convention is 17 A It defines	on the IETF process of the phrase ons used in the SNMP managemen 15:17:12 case to me would refer to a string representing a particular data ics around the use of that pe. C defines semantically what ventions are; is that fair to say? textual conventions as they	nt a	7 8 9 10 11 12 13 14 15 16 17	using (cother quantity Abecause Quantity American America	Yeah. But if it was not if we were CamelCase, why isn't E capitalized is the uestion, right? Why isn't the E capitalized? So in Exhibit 329, it's not pure CamelCase e "engineID," the first E is not capitalized. That's exactly my point. You didn't use Case in Exhibit 329, in the commands in a 329. In Exhibit 329, I'm not sure how eID" came out with a capital ID. It could eath. At this point I'm not sure what the	e 15:19:56
8 has participated if 9 "textual conventi 10 architecture"? 11 A It in this of 12 human-readable of 13 type, and semant 14 particular data ty 15 Q So this RI 16 those textual com 17 A It defines 18 would be used in	on the IETF process of the phrase ons used in the SNMP managemen 15:17:12 case to me would refer to a string representing a particular data ics around the use of that pe. FC defines semantically what ventions are; is that fair to say?	nt a	7 8 9 10 11 12 13 14 15 16 17 18	using Cother q Q A becaus Q Camelo Exhibit A "engine be ye exact o	Yeah. But if it was not if we were CamelCase, why isn't E capitalized is the uestion, right? Why isn't the E capitalized? So in Exhibit 329, it's not pure CamelCase e "engineID," the first E is not capitalized. That's exactly my point. You didn't use Case in Exhibit 329, in the commands in a 329. In Exhibit 329, I'm not sure how eID" came out with a capital ID. It could eah. At this point I'm not sure what the rigin is.	e 15:19:56
8 has participated if 9 "textual conventif 10 architecture"? 11 A It in this of 12 human-readable if 13 type, and semant 14 particular data ty 15 Q So this RI 16 those textual con 17 A It defines 18 would be used in 19 RFC.	n the IETF process of the phrase ons used in the SNMP managemer 15:17:12 case to me would refer to a string representing a particular data ics around the use of that pe. FC defines semantically what ventions are; is that fair to say? textual conventions as they other MIBs that import from this	nt a 15:17:55	7 8 9 10 11 12 13 14 15 16 17 18	using Cother q Q A becaus Q Camelo Exhibit A "engine be ye exact o	Yeah. But if it was not if we were CamelCase, why isn't E capitalized is the uestion, right? Why isn't the E capitalized? So in Exhibit 329, it's not pure CamelCase e "engineID," the first E is not capitalized. That's exactly my point. You didn't use Case in Exhibit 329, in the commands in t 329. In Exhibit 329, I'm not sure how eID" came out with a capital ID. It could eah. At this point I'm not sure what the rigin is. Okay. In any case, regardless of	e 15:19:56 15:20:15
8 has participated if 9 "textual conventif 10 architecture"? 11 A It in this of 12 human-readable if 13 type, and semant 14 particular data ty 15 Q So this RI 16 those textual con 17 A It defines 18 would be used in 19 RFC. 20 Q Okay. The	n the IETF process of the phrase ons used in the SNMP managemer 15:17:12 case to me would refer to a string representing a particular data ics around the use of that pe. **C defines semantically what wentions are; is that fair to say? textual conventions as they other MIBs that import from this ee first one on this page 36 is	nt a 15:17:55	7 8 9 10 11 12 13 14 15 16 17 18 19 20	using (other q Q A becaus Q Camelo Exhibit A "engine be ye exact o Q capitali	Yeah. But if it was not if we were CamelCase, why isn't E capitalized is the uestion, right? Why isn't the E capitalized? So in Exhibit 329, it's not pure CamelCase e "engineID," the first E is not capitalized. That's exactly my point. You didn't use Case in Exhibit 329, in the commands in a 329. In Exhibit 329, I'm not sure how eID" came out with a capital ID. It could eah. At this point I'm not sure what the rigin is. Okay. In any case, regardless of ization, the term "engineID" is not a term	e 15:19:56
8 has participated if 9 "textual conventif 10 architecture"? 11 A It in this of 12 human-readable if 13 type, and semant 14 particular data ty 15 Q So this RI 16 those textual con 17 A It defines 18 would be used in 19 RFC. 20 Q Okay. The 21 titled, without spa	n the IETF process of the phrase ons used in the SNMP managemer 15:17:12 case to me would refer to a string representing a particular data ics around the use of that pe. FC defines semantically what wentions are; is that fair to say? textual conventions as they other MIBs that import from this e first one on this page 36 is aces, "SnmpEngineID."	nt a 15:17:55	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	using Cother q Q A becaus Q Camele Exhibit A "engine be ye exact o Q capitali that yo	Yeah. But if it was not if we were CamelCase, why isn't E capitalized is the uestion, right? Why isn't the E capitalized? So in Exhibit 329, it's not pure CamelCase e "engineID," the first E is not capitalized. That's exactly my point. You didn't use Case in Exhibit 329, in the commands in tage. In Exhibit 329, I'm not sure how eID" came out with a capital ID. It could eath. At this point I'm not sure what the rigin is. Okay. In any case, regardless of ization, the term "engineID" is not a term use came up with, right?	e 15:19:56 15:20:15
8 has participated if 9 "textual conventif 10 architecture"? 11 A It in this of 12 human-readable of 13 type, and semant 14 particular data ty 15 Q So this RI 16 those textual com 17 A It defines 18 would be used in 19 RFC. 20 Q Okay. Th 21 titled, without spa 22 Do you see	n the IETF process of the phrase ons used in the SNMP managemen 15:17:12 case to me would refer to a string representing a particular data ics around the use of that pe. FC defines semantically what ventions are; is that fair to say? textual conventions as they other MIBs that import from this effrst one on this page 36 is aces, "SnmpEngineID."	15:17:55	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	using Cother q Q A becaus Q Camele Exhibit A "engine be ye exact o Q capitali that you	Yeah. But if it was not if we were CamelCase, why isn't E capitalized is the uestion, right? Why isn't the E capitalized? So in Exhibit 329, it's not pure CamelCase e "engineID," the first E is not capitalized. That's exactly my point. You didn't use Case in Exhibit 329, in the commands in t 329. In Exhibit 329, I'm not sure how eID" came out with a capital ID. It could eah. At this point I'm not sure what the rigin is. Okay. In any case, regardless of ization, the term "engineID" is not a term to came up with, right? No, it's not a term that I came up with.	e 15:19:56 15:20:15
8 has participated if 9 "textual conventif 10 architecture"? 11 A It in this of 12 human-readable of 13 type, and semant 14 particular data ty 15 Q So this RI 16 those textual com 17 A It defines 18 would be used in 19 RFC. 20 Q Okay. The 21 titled, without span 22 Do you see 23 A S capital,	n the IETF process of the phrase ons used in the SNMP managemer 15:17:12 case to me would refer to a string representing a particular data ics around the use of that pe. FC defines semantically what wentions are; is that fair to say? textual conventions as they other MIBs that import from this e first one on this page 36 is aces, "SnmpEngineID."	15:17:55	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	using Cother q Q A becaus Q Camelo Exhibit A "engine be ye exact o Q capitali that you A Q	Yeah. But if it was not if we were CamelCase, why isn't E capitalized is the uestion, right? Why isn't the E capitalized? So in Exhibit 329, it's not pure CamelCase e "engineID," the first E is not capitalized. That's exactly my point. You didn't use Case in Exhibit 329, in the commands in t 329. In Exhibit 329, I'm not sure how eID" came out with a capital ID. It could eah. At this point I'm not sure what the rigin is. Okay. In any case, regardless of ization, the term "engineID" is not a term u came up with, right? No, it's not a term that I came up with. That's a term	e 15:19:56 15:20:15
8 has participated if 9 "textual conventifor architecture"? 11 A It in this of the particular data ty 12 particular data ty 15 Q So this RI 16 those textual con 17 A It defines 18 would be used in 19 RFC. 20 Q Okay. The 21 titled, without spans 22 Do you see 23 A S capital, 24 do see it.	n the IETF process of the phrase ons used in the SNMP managemer 15:17:12 case to me would refer to a string representing a particular data ics around the use of that pe. FC defines semantically what ventions are; is that fair to say? textual conventions as they other MIBs that import from this are first one on this page 36 is aces, "SnmpEngineID." that? E capital, ID capital. Yes, I	a 15:17:55	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	using Cother q Q A becaus Q Camelo Exhibit A "engine be ye exact o Q capitali that yo A Q A	Yeah. But if it was not if we were CamelCase, why isn't E capitalized is the uestion, right? Why isn't the E capitalized? So in Exhibit 329, it's not pure CamelCase e "engineID," the first E is not capitalized. That's exactly my point. You didn't use Case in Exhibit 329, in the commands in t 329. In Exhibit 329, I'm not sure how eID" came out with a capital ID. It could eah. At this point I'm not sure what the rigin is. Okay. In any case, regardless of ization, the term "engineID" is not a term to came up with, right? No, it's not a term that I came up with.	e 15:19:56 15:20:15

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 10 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS EYES ONLY

	came up with for the CLI command or somebody else on 15:20:55		A Not at all. I just don't recognize it 15:28:	37
2	2 my team came up with for the CLI command	2	2 looking at it right now because it's been so long	
3	B Q The I'm sorry I just didn't	3	3 ago.	
4	understand your last answer	4	Q What is this document?	
Š	Did you coin the term "engineID"? 15:21:46	5	A It's a detailed design document for the 15:	29:04
ϵ	A I am not certain that I coined the term	6	5 SNMP V3 implementation that went into IOS.	
7	7 "engineID"	7	Q And the design document includes strike	
8	Q Okay The term appears in this document.	8	that.	
9	right?	9	Do you know who the author of this	
10	A "SnmpEngineID" appears in this document, 15:22:03	10	sorry. Strike that. 15:29:22	
11	yes	11	Do you know who the audience of this	
12	Q Okay And you reviewed this document	12	document is?	
13	before writing these command names, right?	13	A Other engineers within the team or related	
14	A Correct	14	teams who have a need to know about how SNMP was	
15	Q The last word in those two commands, the 15:22:19	15	designed so they can maintain it. 15:29:	37
16	first one, the last word is "local," and the second	16	Q And so is it fair to say the document	
	one, the last word is "remote"	17	includes information about how you intended to	
18		f	implement SNMP V3 including some of the commands	}
19			that you were proposing?	
	look through the document to see if there's anything 15:22:35	20	, , , ,	
	with "local" and "remote" here?	21	Q Take a look at Section 1.4 on the first	
22		1	page. It begins, "Must allow creation and deletion	
23		i	of SNMP communities, users and groups via both the	
			CLI and SNMP sets."	
	where in the protocol we talk about SNMP in PROMs because I suspect it has to do with message exchange 15:25:39	25		15:30:11
23	because I suspect it has to do with message exchange 15:25:39 Page 158	23	when you wrote lying allow eleanon and	Page 16
1	between two configured SNMP devices where one is 15:25:4:	1	deletion of SNMP communities, users and groups,"	15:30:1
2	notifying the other of activity.	2	what is it that has that requirement?	
3	Q That would be remote?	3	A Can you repeat the question, please?	
4	A One would be local, one would be remote.	4	Q What is it that you were referring to that	
5	Q And is that a feature that's provided for 15:26:04	5	requires the strike that. 15:30:30	
6	in the industry standards?	6	You wrote that something must allow the	
7	A I believe so. I'm not sure they use	7	creation and deletion of SNMP communities, users and	
8	remote or message authoritative. Without being able	8	groups.	
9	to grab through to search through the document,	9	What is the "something"?	
10	it's hard for me to tell you exactly where or 15:26:18	10	A We were striving for feature parity in 15:3	0:43
	what could have triggered the use of the term	-	configuring SNMP through both the CLI and through	
	"remote."	l	SNMP.	
13	(Exhibit 337 was marked for identification	13	With SNMP V3, if I recall right, if I	
4	and is attached hereto.)		recall correctly, one of the nice features was that	
15	MR, SANTACANA; Exhibit 337 bears the 15:27:40		it allowed for SNMP MIBs that could be used to	15:31:04
	control numbers CSI-CLI-00609071. It's titled		configure SNMP.	, , , , , , , , , , , , , , , , , , , ,
6		17	So if you did a basic amount of	
	*Document Number ENG-28473 Revision D * 1t lists	17	configuration of the CLI, the rest of the	
7	"Document Number ENG-28473, Revision B." It lists	19	CONTRACTOR OF THE C.E.I. LIBOTESE OF THE	
7 8	the witness as the author; project manager, Dale			
7 8 9	the witness as the author; project manager, Dale Francisco; project headline, SNMP V3 Design	19	configuration you could take care of	15.21.10
7 8 9 20	the witness as the author; project manager, Dale Francisco; project headline, SNMP V3 Design Document. 15:28:05	19 20	configuration you could take care of MR. THOMPSON: Mr. Kavasseri, slow	15:31:18
7 8 9 20	the witness as the author; project manager, Dale Francisco; project headline, SNMP V3 Design Document. 15:28:05 Q Mr. Kavasseri, do you recognize this	19 20 21	configuration you could take care of MR. THOMPSON: Mr. Kavasseri, slow THE WITNESS: Slow it down? Yeah.	15:31:18
17 18 19 20 21	the witness as the author; project manager, Dale Francisco; project headline, SNMP V3 Design Document. 15:28:05 Q Mr. Kavasseri, do you recognize this document?	19 20 21 22	configuration you could take care of MR. THOMPSON: Mr. Kavasseri, slow THE WITNESS: Slow it down? Yeah. MR. THOMPSON: Thank you.	15:31:18
17 18 19 20 21 22 23	the witness as the author; project manager, Dale Francisco; project headline, SNMP V3 Design Document. 15:28:05 Q Mr. Kavasseri, do you recognize this document? A No, it's been so long ago.	19 20 21 22 23	configuration you could take care of MR. THOMPSON: Mr. Kavasseri, slow THE WITNESS: Slow it down? Yeah. MR. THOMPSON: Thank you. THE WITNESS: If you what SNMP V3 gave	15:31:18
17 18 19 20 21 22 23 24	the witness as the author; project manager, Dale Francisco; project headline, SNMP V3 Design Document. 15:28:05 Q Mr. Kavasseri, do you recognize this document?	19 20 21 22 23 24	configuration you could take care of MR. THOMPSON: Mr. Kavasseri, slow THE WITNESS: Slow it down? Yeah. MR. THOMPSON: Thank you.	15:31:18 15:31:29

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 11 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS EYES ONLY

r		-,	
	1 rest of the configuration through SNMP directly 15:31:32		1 team suggested, "Hey, go with the shortest string." 15:34:39
	2 This was not possible before	1	2 Because when you're talking about the
	Because it was not possible before, we had		3 command line, it's all about how many characters you
.	4 never bothered with creating communities which	4	4 type, or it's a lot to do with how many characters
	5 existed before SNMP V3 through SNMP So now we 15:31:46		5 you type. 15:34:51
,	5 needed to add that as a support feature as well	1	6 Q Why is that?
	7 BY MR SANTACANA:	1 :	A Well, you could type U and hit "tab," and
	B Q And the reason you needed to add the	1 8	3 if there was no other word that started with U, IOS
9	ability to create and delete communities, users and		would auto-complete to "user." So you didn't need
	groups was because of the features of the industry 15:31:59		to type the whole thing. 15:35:03
İ	standard SNMP V3?	11	
12			2 in 82, this is the end of a list of CLI commands
	3 SNMP V3 talked about users, not communities, if 1	1	that you're proposing, and this one in particular is
1	remember right 1 think that's what we referred to		the "snmp-server engineID" command.
		15	
l		1	•
16		16	3 . 0 /1
	only the IOS CLI was the point of record I'm not		/ Just I'm slowing down reading stuff already.
	sure whether I meant here that you could delete	18	
	stuff through SNMP that was created through the CLI	1	here, which carries over from the previous page,
	and now the CLI needs to be regenerated or resaved 15:32:38		there's an asterisk, and then there's the 15:35:40
	to NV RAM	1	"sump-server engineID" command.
22	· ·	22	
	be clear if you flip to the page that ends in 75,	23	
24	Section 2 7	1	command is and what it's going to do.
25	Section 2 7 says, "SNMP V1/V2 versus SNMP 15:33:02	25	
	Page 162	-	Page 164
1	V3 differences, and how things work." 15:33:07	1	A Yeah. 15:35:51
2	And then you have a list of differences	2	Q And then also it shows that local and
3	and how things work between the old and the new	3	remote are optional arguments.
4	versions of SNMP.	4	Do you see that?
5	The first thing that you wrote was, "In 15:33:18	5	A Where does it say local and remote are 15:36:03
6	SNMP V3, 'community strings' are called 'users,'"	6	optional arguments?
7	and "users" is in quotation marks. "Each 'user,"	7	Q Directly under "snmp-server enginelD," do
8	in quotation marks again, "has an access-policy,	8	you see the open bracket, and then it says, "local,"
9	which is termed a 'group,'" and the word "group" is	9	and then there's a vertical line, and then it says,
10	also in quotation marks, "i.e., users belong to a 15:33:31	10	"remote"? 15:36:13
11	group."	11	A So
12	A Yep.	12	Q So it indicates that the command
13	Q Does this strike that.		"snmp-server enginelD" could either take the local
14	Does this refresh your recollection as to		argument or the parameter, if you will, or the
	whether the terms "users" and "group" came from the 15:33:49		remote. 15:36:27
	SNMP standard?	16	A No, I don't think that this is an optional
17	A The term "user" and "group" referred to		argument. I think there's a typo in this text here.
	· .	18	
	concepts in the SNMP standard. Of that, I have no issue with saying that.	19	Q Okay.
			A Because if you look at it, the first
20	The reason I hesitate is, we use the term 15:34:19		bracket is an open curly brace. There is no close 15:36:34
	"user," and we could have used VACM user or any		curly brace.
	other combination of "user."	22	I assume that and again, I could be
23	We settled on "user." I'm not sure that		completely wrong on this. I assume that the if
	that was because it was directly due to looking at		you look at "remote ipaddress udp-port," and then
25	the RFC, or somebody in parser police or within my 15:34:35 Page 163	25	within angle brackets, "port," following that are 15:36:52 Page 165

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 12 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 12 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS EYES ONLY

1	two square brackets. I think the second of those is 15:36:55	1	
1	supposed to be a curly bracket.	2	· · · · · · · · · · · · · · · · · · ·
3	•	3	authored the engineID command.
4	theory, if you have both optional, I'm not sure how	4	Again, I'm going by the fact that it's
5	a programmatic parser would know what you meant. 15:37:	08 5	s semi CamelCase and it looks odd, and I'm not sure 15:39:43
6	Q I see.	6	anybody else in my team would have come up with
7	A There are two optional paths to go by and	7	that.
8	a required path at the end.	8	The rest of the commands they may all
9	Q I see. And I think I I didn't mean to	9	have been group efforts, team efforts. But I I'm
10	say "optional." What I meant was that the user has 15:37:23	10	pretty sure I checked in the files of these 15:39:58
11	an option between using local and using remote.	11	commands.
12	A Yeah, that is correct. That seems about	12	Q Okay. Mr. Kavasseri, you've said a couple
13	right.	13	times that it may be that you were listed here as
14	Q Okay. But the command itself is		the author of the command because you were the
	"snmp-server engineID"; is that fair to say? 15:37:33	í.	person who checked in the files. 15:40:35
16	A The root of the command is "snmp-server	16	•
	engineID." I agree.	17	A Every Cisco command every IOS CLI
18	Q The first thing that you write here under		
	that command is, "For SNMP V3 authentication and		command is implemented in a source code file. When somebody finished developing that, they checked the
		-	
	privacy to work, each SNMP agent needs to have its 15:37:46	1	command in. 15:41:02
	own SNMP engine ID."	21	So in this case, if you're referring to
22	A Yes.	1	by "author," if you mean the person who checked in
23	Q Do you see that?		the files, then yes, these files were all checked in
24	What did you mean by that?	1	by me originally. But that does not mean that I was
25	A My recollection is hazy, but my hazy 15:38:03		the sole creator of these keywords. 15:41:15
	Page 166	-	Page 168
1	recollection tells me that this is the key that is 15:38:05	1	We have a very collaborative work 15:41:20
2	used to encrypt packets going back and forth; i.e.,	2	environment when I was there, and I especially
3	if you change this key, you may not yeah. I	3	with an important feature like SNMP V3, I would
4	don't change the key. I have no idea what happens	4	think that this was a team effort
	when you change the key anymore. 15:38:21	5	Q I just need to go back a second Could 15:41:36
6	Q Okay. You can set that aside.	6	you grab Exhibit 336, which is RFC 2271?
7	You've mentioned a couple of times that	7	A Yeah
	some commands can take the word "no" in front of	8	Q Could you turn to page 45 of that exhibit?
	them.	9	A Yep
10	A Yes. 15:38:41	10	
11	Q Is that you'll see that's not listed in		Q This is an acknowledgment section which 15:41:52
	•		acknowledges the efforts of the SNMP V3 working
	Exhibit 329. Cisco doesn't list it that way. "No"		group at IETF, and it lists as working group members
	is an optional thing that you can write in front of		a number of people who work at a variety of
	the command, right?	1	different companies
15	A "No" is an optional extension to add in 15:38:51	15	A Yes 15:42:04
	front of the command.	16	Q Some of those people are Keith McCloghrie,
17	Q And was that already the way the IOS CLI	1	and in parentheses it says, "Cisco Systems"; Bob
	worked before you started working at Cisco?	18	Stewart, and in parentheses, "Cisco Systems"; and
19	A By my recollection, yes.	19 .	Jeff Johnson in the next section, which is a list of
20	Q I'd like to turn your attention now to the 15:39:12	20 1	members of an advisory team at the IETF, also at 15:42:19
21	top four commands in this list, which all begin with	21	Cisco Systems
22	the word "show."	22	Did you know all of these people?
23	A Yes.	23	A Yes, I did
	Q The words "show snmp," and then there's	24	Q Do you recall Mr McCloghrie, Mr Stewart
24	17		` '
	another word. 15:39:22	25 8	and Mr Johnson contributing to the SNMP V3 industry 15:42:35

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 13 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 13 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS EYES ONLY

I standard protocol while you were working and Cisco? 15:42:40 2		
3 to—let me rephrase by saying I had very limited 4 interactions at the fine this document was written. 5 I know that Jeffey obhors was very 15:43:08 6 involved because he was my mentor, and he would tell 7 me that he was working on the RFC draft. I have no 8 direct evidence of the other two that I can result. 9 I will add an addendum that they both were 10 cery respected people, and I'm very sure they did a 15:43:22 11 lot for these documents. I just don't have any 12 direct evidence that I was privy be from a working 13 meeting or anything else. 14 Q Cleay. So you can set that aside now. 15 Looking back at Edithisi 329, we'd started 15 "Stoo" was a term that was already in 17 commands. 18 "Show" was a term that was already in 19 lOS CLi; is that fair to say? 20 A When I joined Cisco — I've actually never 21 asked the question when "show" was in the command. 22 As far as I can tell, it was there when I joined. 23 Q And the reason that you used it there was 24 because it was already used in other IOS CLI 25 commands? 15:44:37 Page 170 1 A By the time I implemented these commands, 26 discussed, is an industry standard protocol, is that for these commands is "show samp." And then we have 29 "show" was the standard way to display information 3 from the CLI. 4 Q And the reason that you used it there was 24 because it was already used in other IOS CLI 25 commands? 15:44:38 16 interestination and the protocol, so we've 26 discussed, is an industry standard protocol, so we've 27 A I have and "group" appear in the EETF documents; in 15:44:59 16 fair to say? 17 A T we're and "group" appear in the EETF documents; in 15:45:20 17 A "Tues" and "group" appear in the EETF documents; in 15:45:21 18 Look they come and show the reason that you used there is the command and show the first two words in each of 15:45:50 19 C And the terms "ner" and "group" appear in the EETF documents; in 15:45:21 19 A Yean. 10 Q And the terms "ner" and "group" appear in the EETF documents; in 15:45:22 21 A To the best of my snowledge, they refer		_
4 Interactions at the time this document was very		-
S I know that Jeffrey Johnson was very 15-43-08 6 involved because he was my mentor, and he would tell 7 met that he was working on the RFC draft. I have no 8 direct evidence of the other two that I can recall. 9 1 will add an addendum that they both were 10 very respected people, and I'm very sure they did a 15-43-32 11 lot for these documents. I just dorft have any 12 direct evidence that I was privy to flom a working 13 meeting or anything else. 12 Min and a meeting or anything else. 13 meeting or anything else. 14 Q Clay. So you can are that aside now. 15 Looking back at Establish 329, weld starred 15-43-37 16 discussing the four "show" commands, "show sump" 17 commands. 18 "Show" was a term that was already in 17 commands. 18 "Show" was a term that was already in 18 18 "Show" was a term that was already in 19 IoS CLL is that fair to say? 19 LOS CLL is that fair to say? 19 A Yes. 20 Q Do you recognize that command? 15-44-31 21 asked the question when "show" was in the command 22 As far as I can tell, it was three when I joined. 23 Q And the same was already used in other IOS CLL 25 commands? 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page		
6 involved because he was my mentor, and he would tell 7 me that he was working on the RFC draft. I have no 8 (firect evidence of the other two that I can recall. 9 I will add an addendum that they both were 10 very respected people, and I'm very sure they did a 10 to for these documents. I just doth thave any 12 direct evidence that I was privy to from a working 13 meeting or anything else. 14 Q Okay. So you can set that aside now. 15 Looking back at Eskibit 329, weld started 15 43-37 16 discussing the four 'show' commands, 'show sump' 17 commands. 18 "Show' was a term that was already in 19 IOS CLE, it but fair to say? 20 A When I joined Cisco — I've actually never 15:44:11 21 asked the question when 'show' was in the command. 22 As far as I can tell, it was there when I joined. 23 Q And the reason that you used it there was 24 because it was already used in other IOS CLI. 25 commands? 15 As 37 27 A by the time I implemented these commands, 15:44:37 28 flowers the standard way to display information 3 from the CLI. 4 Q And the term 'ShNPP," of course, as we've's 6 discussed, is an industry standard protocol, je yes. 10 Q And then so the first two words in each o' 15:45:07 17 A "User" and "group" appear in the" smmp 18 user" and "group" appear in the" smmp 18 user and "group" appear in the" smmp 18 user and "group" appear in the" smmp 18 user and "group" appear in the" smmp 18 user and "group" appear in the" smmp 18 user and "group" appear in the" smmp 18 user and "group" appear in the" smmp 18 user and "group" appear in the" smmp 18 user and "group" appear in the ETF documents; so the same way that they'te used in those me 23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 22 CLI command. In here they're used specifically for 22 CLI commands. 15:5522		
7 A Holy cov. 8 direct evidence of the other two that I can rocall. 9 I will ad an addendum that they both were 10 very respected people, and I'm very sure they did a 11 lot for these documents. I just dor't have any 12 direct evidence that I was privy to from a working 13 meeting or anything else. 14 Q ORD, So you can set that aside nov. 15 Looking back at Eskhibit 329, we'd started 17 Commands. 18 "Show" was a term that was already in 19 IOS CLI, is that fair to say? 19 IOS CLI, is that fair to say? 20 A When I joined Cisco. —I've actually never 21 ansked the question when "show" was in the command. 22 As far as I can tell, it was there when I joined. 23 Q And the reason that you used it here was 24 because it was already used in other IOS CLI. 25 commands? 15.44.37 27 A By the time I implemented these commands, 15.44.38 27 show" was the standard way to display information 3 from the CLI. 4 Q And the ferm "ShMP," of course, as we've of discussed, is an industry standard protocol, is that 15.44.39 6 fair to say? 7 A In which context? The term "ShMP" by sitesif as an acromym is industry standard protocol, 9 yes. 10 Q And then so the first two words in each of 15.45.52 1 was many that they be the supplier to t		
8 direct evidence of the other two that I can recall. 9 I will add an addendum that they both were 10 very respected peole, and The very sure they did a 11 lot for these documents. I just dor't have any 12 direct evidence that I was privy to from a working 13 meeting or anything else. 14 Q Okary. So you can set that aside now. 15 Looking back at Eshibit 329, we'd started 15 43-32 16 discussing the four "show" commands, "show samp" 17 commands. 18 "Show" was a term that was already in 19 IOS CLI; is that fair to say? 20 A When I joined Cisco – I've actually never 21 asked the question when "show" was in the command. 22 As fair as I can tell, it was there when I joined. 23 Q And the reason that you used if there was 24 because it was already used in other IOS CLI 25 commands? 1 A By the time I implemented these commands, 2 "show" was the standard way to display information 3 from the CLI. 2 commands? 1 A By the time I implemented these commands, 3 from the CLI. 4 Q And the reason that you to display information 3 from the CLI. 5 commands? 1 A Veni. 1 A Dy And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol; is that fair to say? A In which context? The term "SNMP" by 8 itself as an acronym is industry standard protocol, 9 yes. 10 Q And the terms "user" und "group" also are 12 "show" was the standard way to display information 3 from the CLI. 4 Q And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol, 9 yes. 15 defined by the course of the standard way to display information 16 from the CLI. 17 The poing to say "term" instead of 18 "snmp-secre host." 19 A Ven. 20 Q And the reason that you used it lene was 21 way in the course of the standard way to display information 22 A brian in the course of the standard way to display information 3 from the CLI. 4 Q And the south effect of the standard way to display information 3 from the CLI. 5 commands: 15 terms that are used in the left of the standard way to display information 2 the standard way to disp	•	<u> </u>
9 and is attached heroto.) 10 very respected people, and I'm very sure they did a 15:43:32 till to for these documents. I jack dorf have any 12 direct evidence that I was privy to from a working 13 meeting or anything else. 13 members beginning with CSL-CL-00319765, and it's 14 dated October 2009. 15 Looking back at Exhibit 329, we'd started 15:43:57 16 discussing the four "show" commands, "show smmp" 17 commands. 18 "Show" was a term that was already in 19 10S CLI; is that fair to say? 19 A When I joined Cisco — I've actually never 15:44:11 21 asked the question when "show" was in the command. 22 As far as I can tell, it was there when I joined. 23 Q. And the reason that you used it here was 24 because it was already used in other IOS CLI 25 commands? 15:44:37 Page 170 I A By the time I implemented these commands, 2 "show" was the standard way to display information 3 from the CLI. 4 Q. And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol, 59 yes. 10 Q. And then so the first two words in each of 15:45:07 11 these commands is "show sump." And then we have 12 "show samp user" and "show samp group." 13 A Yesh. 14 Q. And the terms "sucer" and "group" also use 12 "show samp user" and "show samp group." 15 As 7. User" and "group" also use 15 terms that are used in the ETF Soulp documents, 15 45:35 21 A "User" and "group" also use 15 terms that are used in the ETF Soulp documents, 15 45:52 21 A To the best of my knowledge, they refer to 22 were way that they're used in these IETF documents? 15:45:52 21 A To the best of my knowledge, they refer to 22 were show which is same 23 way in that the IETF documents? 15:45:52 24 CLI commands. 15:50:29		7 A Holy cow.
10 very respected people, and I'm very sure they did a 15:43:32 li 10 for these documents. I just dor't have any 12 direct evidence that I was privy to from a working 13 meeting or anything else. 14 Q Okay. So you can set that aside now. 15 Looking back at Eshibit 1329, wed started 15:43:57 li 6 discussing the four "show" commands, "show smmp" 17 commands. 18 "Show" was a term that was already in 19 IOS CLI; is that fair to say? 19 OA When I joined Cisco – I've actually never 15:44:11 21 asked the question when "show" was in the command. 22 As far as I can tell, it was there when I joined. 23 Q And the reason that you used it here was 24 because it was a faredy used in other IOS CLI 24 that if is light likely that I cheeked in the file 25 with this command? 22 As I will go back to my carlier statement 24 that it's lightly likely that I cheeked in the file 25 with this command. Especially with this command, I I 15:48:24 2 term "host." 1 m not sure whether I was the original author of the 15:48:24 2 term "host." 1 m not sure whether I was the original author of the 15:48:24 2 term "host." 1 m poing to say "term" instead of 4 Q And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol, 9 yes. 10 Q And then so the first two words in each of 15:45:07 I these commands is "show smmp group." 1 how same your mid "show smmp group." 1 how same your mid "show smmp group." 1 how same your mid "show smmp group." 1 how same your that the IETF documents? 15:45:52 li that fair to say? 1 how some your hat the lETF documents? 15:45:52 li that fair to say? 1 how some your hat the lETF documents? 15:45:52 li that fair to say? 1 how show some your hat they call in those IETF documents? 15:45:52 li that fair to say? 1 how some your hat they call in those IETF documents? 15:45:52 li that fair to say? 1 how show some your hat they call in those IETF documents? 15:45:52 li that fair to say? 1 how some your hat they call in those IETF documents? 15:45:52 li that fair to say? 1 how show some your hat they call	8 direct evidence of the other two that I can recall.	8 (Exhibit 338 was marked for identification
11 lot for these documents. I just don't have any 12 direct evidence that I was privy to from a working 13 meeting or anything else. 14 Q Okay. So you can set that aside now. 15 Looking back at Exhibit 329, wed started 15-43-57 16 discussing the four "show" commands, "show smmp" 15 dot discussing the four "show" commands, "show smmp" 15 dot discussing the four "show" was a term that was already in 15 white I fair to say? 15 I just want you to flip to the page that 15-47-03 16 ends in 1060. The internal page would be NM-1248. 17 So this page relates to the command 18 "show" was a term that was already in 19 NS CLI; is that fair to say? 19 A Yes. 20 Q Do you recognize that command? 15-47-58 21 asked the question when "show" was in the command. 21 A Yes, now 1 do. 22 Q Did you author that command? 15-47-58 23 A I will go back to my earlier statement 24 that it's highly likely that I checked in the file 25 with this command. Especially with this command, I 15-48-21 25 with this command, I 15-48-21 26 fair to say? 1 am not sure whether I was the original author of the 15-48-28 2 mshow" was the standard way to display information 2 mshow samp 15 wshow samp." And then we have 2 mshow samp 15 wshow samp." And then we have 2 mshow samp group." 1 wshow samp group." 1 mshow samp group."		,
12 direct evidence that I was privy to from a working 13 meeting or anything else. 14 Q Okay. So you can set that aside now. 15 Looking back at Exhibit 329, we'd started 15 Looking back at Exhibit 329, we'd started 15 Looking back at Exhibit 329, we'd started 15 Looking back at Exhibit 329, we'd started 16 discussing the four "show" commands, "show smmp" 17 commands. 18 "Show" was a tern that was already in 19 IOS CLE is that fair to say? 20 A When I joined Cisco I've actually never 21 asked the question when "show" was in the command. 22 As far as I can tell, it was there when I joined. 23 Q And the reason that you used it there was 24 because it was already used in other IOS CLI 25 commands? 1 A By the time I implemented these commands at that it is shiply likely that I checked in the file 2 'show" was the standard way to display information 3 from the CLI. 4 Q And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol, is that 6 fair to say? 7 A In which context? The term "SNMP" by 6 fair to say? 7 A In which context? The term "SNMP" by 7 yes. 10 Q And then so the first two words in each of 15:45:507 11 these commands is "show smmp." And then we have 12 "show smmp user" and "show smmp group." 13 A Yeah. 14 Q And the terms "user" and "group" also are 15 terms that are used in the IETF SNMP documents; is 15:45:21 16 that fair to say? 17 A "User" and "group" appear in the "snmp 18 user" and "group" appear in the ETF documents, is 15:45:21 21 A To the best of my knowledge, they refer to 22 sea sea way that they're used in those IETF documents; 23 Value that they're used specifically for 24 CLI commands. 15:45:25 25 A This differs from my recollection. 15:40:29 26 CLI commands. 16 In the command Reference." It ded October 2009. 16 In the command is a ded October 2009. 17 A "User" and "group" appear in the ETF documents; 19 Q And the terms "user" and "group" also are 15:48:21 25 commands. 26 Men I be page that 15:47:03 27 In the command is minuted to the page that 15:47:50 28 In m		
13 meeting or anything else. 14 Q Okay. So you can set that aside now. 15 Looking back at Exhibit 329, we'd started 15:43:57 16 discussing the four "show" commands, "show smmp" 17 commands. 18 "Show" was a term that was already in 19 IOS CLI; is that fair to say? 20 A When I joined Cisco — I've actually never 21 asked the question when "show" was in the command. 22 As far as I can tell, it was there when I joined. 23 Q And the reason that you used it here was 24 because it was already used in other IOS CLI 25 commands? 15 I just vantyou to flip to the page that 15:47:03 16 ends in 1060. The internal page would be NM-1248. 17 So this page relates to the command 18 "smmp-server host." 19 A Yes. 20 Q Do you recognize that command? 21 asked the question when "show" was in the command. 22 As far as I can tell, it was there when I joined. 23 Q And the reason that you used it here was 24 because it was already used in other IOS CLI 25 commands? 15 I just vant you to flip to the page that 15:47:03 16 ends in 1060. The internal page would be NM-1248. 17 So this page relates to the command 18 "smmp-server host." 19 A Yes. 20 Q Do you recognize that command? 21 A Yes, now I do. 22 Q Did you author that command? 22 As far as I can tell, it was there when I joined. 23 Q I bill you author that command? 24 that it's highly likely that I checked in the file 25 with this command. Especially with this command, I 15:48:24 that it's highly likely that I checked in the file 25 with this command. I 15:48:24 that it's highly likely that I checked in the file 25 with this command. I 15:48:24 that it's highly likely that I checked in the file 25 with this command. I 15:48:24 that it's highly likely that I checked in the file 25 with this command. I 15:48:24 that it's highly likely that I checked in the file 25 with this command. I 15:48:24 that it's highly likely that I checked in the file 25 with this command. I 15:48:24 that it's highly likely that I checked in the file 25 with this command. I 15:48:24 that it's highly likely that I		<u> </u>
14 Q Okay. So you can set that aside now. 15 Looking back at Exhibit 329, we'd started 15:43:57 16 discussing the four "show" commands, "show snmp" 17 commands. 18 "Show" was a term that was already in 19 IOS CLI; is that fair to say? 20 A When I Joined Cisco — I've actually never 15:44:11 21 asked the question when "show" was in the command. 22 As far as I can tell, it was there when I Joined. 23 Q And the reason that you used it here was 24 because it was already used in other IOS CLI 25 commands? 15:44:37 28 La By the time I implemented these commands, 15:44:37 29 La A By the time I implemented these commands, 15:44:38 20 "show" was the standard way to display information 3 from the CLI. 31 A By the time I implemented these commands, 15:44:38 32 "show" was the standard way to display information 3 from the CLI. 41 Q And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol, is that 15:44:49 42 fair to say? 43 A I which context? The term "SNMP" by 8 itself as an acronym is industry standard protocol, 9 yes. 44 Q And the term "suser" and "group" also are 15 terms that are used in the IETF SNMP downernets, is 15:45:07 45 Q And the terms "user" and "group" also are 15 terms that are used in the IETF SNMP downernets, is 15:45:07 46 A 'User' and "group" appear in the — "smmp 12 is being messaged through SNMP. 47 Q And the terms "user" and "group" also are 15 terms that are used in the IETF SNMP downernets, is 15:45:07 48 Q And the way that they're used here is the 20 same way that they're used in the STET documents? 15:45:25 49 Q And the way that they're used here is the 20 same way that they're used in the same 23 way in that the IETF document does not refer to 24 CLI command. In here they're used septifically for 25 CLI commands. In here they're used septifically for 25 CLI commands. In here they're used septifically for 25 CLI commands. In here they're used set fine the same 23 way in that the IETF document does not refer to a 24 CLI command. In here they're used set f		
15 Looking back at Exhibit 329, we'd sturted 15:43:57 16 discussing the four "show" commands, "show snmp" 16 discussing the four "show" commands, "show snmp" 17 commands. 18 "Show" was a term that was already in 18 "Show" was a term that was already in 19 IOS CLI; is that fair to say? 19 A. When I joined Cisco — I've actually never 15:44:11 20 Q. Do you recognize that command? 15:47:58 21 asked the question when "show" was in the command. 22 As far as I can tell, it was there when I joined. 23 Q. And the reason that you used if there was 24 because it was already used in other IOS CLI 25 commands? 15:44:37 Page 170 1 A By the time I implemented these commands, 15:44:38 2 "show" was the standard way to display information 3 from the CLI. 4 Q. And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol; is that 6 fair to say? 7 7 A In which context? The term "SNMP" by 8 itself as an acronym is industry standard protocol, 9 yes. 9 10 Q. And then so the first two words in each of 15:45:07 10 Previously this event was called a trap. 15:48:58 11 those commands is "show smmp." And then we have 12 "show smmp user" and "show smmp group." 13 A Yeah. 14 Q. And the terms "user" and "group" appear in the ETF documents; 15:45:21 16 that fair to say? 15 terms that are used in the IETF documents; 15:45:21 A To the best of my knowledge, they refer to 22 was me way that they're used there is the 20 same way that they're used in the same 23 way in that the IETF document does not refer to a 24 way in that the IETF document does not refer to a 24 way in that the IETF document does not refer to a 24 way in that the IETF document does not refer to a 24 way in that the IETF document does not refer to a 24 way in that the IETF document does not refer to a 24 way in that the IETF document does not refer to a 24 way in that the IETF document does not refer to a 24 way in that the IETF document does not refer to a 24 way in that the IETF document does not refer to a 24 way in that the IETF document does not	13 meeting or anything else.	
16 discussing the four "show" commands, "show samp" 17 commands. 18 "Show" was a term that was already in 19 IOS CLI: is that fair to say? 20 A When I joined Cisco — I've actually never 21 asked the question when "show" was in the command. 22 As far as I can tell, it was there when I joined. 23 Q And the reason that you used it here was 24 because it was already used in other IOS CLI 25 commands? 1 A By the time I implemented these commands, 15:44:37 2 "show" was the standard way to display information 3 from the CLI. 4 Q And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol; is that 6 fair to say? A I which context? The term "SNMP" by 8 itself as an acronym is industry standard protocol, 9 yes. 10 Q And then so the first two words in each of 15:45:07 11 these commands is "show samp." And then we have 12 "show samp user" and "show samp group." 13 A Yeah. 14 Q And the terms "user" and "group" also are 15 terms that are used in the IETF documents; in 15:45:21 15 terms that are used in the IETF documents; in 15:45:22 16 that fair to say? 17 A "User" and "group" appear in the — "smmp 18 user" and "group" appear in the — "smmp 18 user" and "group" appear in the ame 23 way in that the IETF documents or 15:45:22 16 A To the best of my knowledge, they refer to 24 the same things. But they're used in the same 23 way in that the IETF document does not refer to 24 CLI command. In here they're used specifically for 25 CLI commands. In here they're used specifically for 25 CLI commands. In here they're used specifically for 25 CLI commands. In here they're used specifically for 25 CLI commands. In here they're used specifically for 25 CLI commands. In here they're used specifically for 25 CLI commands. In here they're used specifically for 25 CLI commands. In here they're used specifically for 25 CLI commands. In here they're used specifically for 25 CLI commands. In here they're used specifically for 25 CLI commands. In here they're used specifically for 25 CLI commands. In here they're us		ļ
17 commands. 18 "Show" was a term that was already in 19 IOS CLI; is that fair to say? 20 A When I joined Cisco – I've actually never 15:44:11 20 Q Do you recognize that command? 15:47:58 21 asked the question when "show" was in the command. 22 As far as I can tell, it was there when I joined. 23 Q And the reason that you used it here was 24 because it was already used in other IOS CLI 25 commands? 15:44:37 Page 170 1 A By the time I implemented these commands, 15:44:38 2 2 "show" was the standard way to display information 3 from the CLI. 4 Q And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol, is that 15:44:49 4 (a) And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol, is that 15:44:50 yeys. 10 Q And then so the first two words in each of 15:45:07 10 Previously this event was called a trap. 15:48:58 11 these commands is "show smmp." And then we have 12 "show smmp user" and "group" also are 15 terms that are used in the IETF SNMP documents; is 15:45:21 16 that fair to say? 10 And the terms "user" and "group" appear in the —"snmp 18 user" and "group" appear in the ETF documents. 15:45:35 10 A Yes. 10 And the terms "user" and "group" appear in the ETF documents. 15:45:35 10 A Yes, now I do. 20 Q Did you author that command? 15:47:58 11 the recommand. 1 I Is:48:21 2 term "host." 1 an not sure whether I was the original author of the 15:48:24 2 term "host." 1 an not sure whether I was the original author of the 15:48:24 2 term "host." 1 an not sure whether I was the original author of the 15:48:24 1 term "sond." 1 in going to say "term" instead of 4 "command." 1 in going to say "term" instead of 4 "command." 1 in going to say "term" instead of 4 "command. 1 in the ETM of the first two words in each of 15:45:47.97 1 in going to say "term" instead of 4 "command. 1 in the ETM of the first two words in each of 15:45:47.97 1 in going to say "term" instead of 4 "command. 1 in the ETM of the first two and 1 in the same 1 in first two words in each of 1	Looking back at Exhibit 329, we'd started 15:43:57	
18 "Show" was a term that was already in 19 IOS CLI, is that fair to say? 20 A When I joined Cisco — I've actually never 15:44:11 21 asked the question when "show" was in the command. 22 As far as I can tell, it was there when I joined. 23 Q And the reason that you used it here was 24 because it was already used in other IOS CLI 25 commands? 15:44:37 1 A By the time I implemented these commands, 15:44:37 2 "show" was the standard way to display information 3 from the CLI. 3 Q And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol, is that 15:44:49 5 discussed, is an industry standard protocol, 9 yes. 10 Q And then so the first two words in each of 15:45:07 11 these commands is "show smmp user" and "show smmp group." 12 "show smmp user" and "show smmp group." 13 A Yeah. 14 Q And the term "user" and "group" also are 15 terms that are used in the IETF SNMP documents, is 15:45:21 16 that fair to say? 17 A "User" and "group" appear in the — "snmp 18 user" and "group" appear in the ETF documents. 19 Q And the way that they're used here is the 20 same way that they're used here is the 20 same way that they're used in those IETF documents. 21 A T will go back to my earlier statement 24 that it's highly likely that I checked in the file 25 with this command. Especially with this command, 1 15:48:21 2 term "host." 2 term "host." 2 term "host." 2 term "host." 3 I'm going to say "term" instead of 4 "command, 1 15:48:24 2 term "host." 3 I'm going to say "term" instead of 4 "command, 1 15:48:24 2 term "host." 4 repectation in the SNMP server command here. 15:48:32 5 about an extension to the SNMP server command here. 15:48:32 6 fair to say? 7 A In which context? The term "SNMP" by 15:48:49 6 fair to say? 10 Previous version, now that I'n reading 8 this, we are specifying the target of an event that 19 this, we are specifying the target of an event that 19 this, we are specifying the target of an event that 19 this, we are specifying the target of an event that 19 this being messaged through		
19 IOS CLI; is that fair to say? 20 A When I joined Cisco — I've actually never 15:44:11 21 asked the question when "show" was in the command. 22 As far as I can tell, it was there when I joined. 22 Q Did you author that command? 23 A I will go back to my earlier statement 24 that it's highly likely that I checked in the file 25 with this command. 25 commands? 15:44:37 27 28 27 29 27 29 27 29 27 20 20 20 you recognize that command? 21 A Twill go back to my earlier statement 24 that it's highly likely that I checked in the file 25 with this command. 25 commands? 26 that it's highly likely that I checked in the file 25 with this command. 26 that it's highly likely that I checked in the file 25 with this command. 26 that it's highly likely that I checked in the file 25 with this command. 26 that it's highly likely that I checked in the file 25 with this command. 26 that it's highly likely that I checked in the file 25 with this command. 26 that it's highly likely that I checked in the file 25 with this command. 26 that it's highly likely that I checked in the file 25 with this command. 26 that it's highly likely that I checked in the file 25 with this command. 26 that it's highly likely that I checked in the file 25 with this command. 26 that it's highly likely that I checked in the file 25 with this command. 26 that it's highly likely that I checked in the file 25 with this command. 26 that it's highly likely that I checked in the file 25 with this command. 27 that it's highly likely that I checked in the file 25 with this command. 26 that it's highly likely that I checked in the file 25 with this command. 26 that it's highly likely that I checked in the file 25 with this command. 27 that it's highly likely that I checked in the file 25 with this command. 27 that it's highly likely that I checked in the file 25 with this command. 27 that it's highly likely that I checked in the fil		
20 A When I joined Cisco — I've actually never 15:44:11 20 Q Do you recognize that command? 15:47:58 21 asked the question when "show" was in the command. 22 As far as I can tell, it was there when I joined. 22 Q Did you author that command? 23 Q And the reason that you used it here was 24 because it was already used in other IOS CLI 25 commands? 15:44:37 Page 170 25 commands? 15:44:38 26 min of the commands 27 show" was the standard way to display information 28 "show" was the standard way to display information 3 from the CLL. 4 Q And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol, is that 15:44:49 6 fair to say? 6 fair to say? 7 A In which context? The term "SNMP" by 8 itself as an acronym is industry standard protocol, 9 yes. 10 Q And then so the first two words in each of 15:45:07 11 these commands is "show smmp," And then we have 12 "show smmp user" and "show smmp group." 13 A Yeah. 14 Q And the terms "user" and "group" also are 15 terms that are used in the IETF SNMP documents; is 15:45:21 16 that fair to say? 16 Q And the way that they're used here is the 15 acceptable — accepted way of configuring targets. 15:49:20 16 Q If you look at the page NM—1251, control 17 number ends in 1063, this is a command history for 18 the command. 15:48:21 16 Q Some way that they're used in those IETF documents? 15:45:35 20 Do you see that? 15:50:04 21 A "Host."? It hought that that previous 22 version was "enable trap." Let me double-check. 23 Yeah, this differs from my recollection. 15:50:29 24 Q Sorry? 25 CLI commands. 15:45:52 25 A This differs from my recollection. 15:50:29 25 CLI commands. 15:50:29 25 CLI commands. 15:45:52 26 Do you see that? 15:45:52	1	•
21 asked the question when "show" was in the command. 22 As far as I can tell, it was there when I joined. 23 Q And the reason that you used it here was 24 because it was already used in other IOS CLI 25 commands? 15:44:37 1 A By the time I implemented these commands, 15:44:38 2 "show" was the standard way to display information 3 from the CLI. 4 Q And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol; is that 15:44:49 5 discussed, is an industry standard protocol, is that 15:44:49 6 fair to say? 7 A In which context? The term "SNMP" by 8 itself as an acronym is industry standard protocol, 9 yes. 10 Q And then so the first two words in each of 15:45:07 11 these commands is "show samp," And then we have 12 "show samp user" and "group" also are 15 terms that are used in the IETF SNMP documents; is 15:45:21 16 that fair to say? 17 A "User" and "group" appear in the —"snmp 18 user" and "group" appear in the —"snmp 18 user" and "group" appear in the ETF documents? 10 Q And the vaxy that they're used here is the 20 same way that they're used in those IETF documents? 11 A To the best of my knowledge, they refer to 22 the same things. But they're not used in the same 23 way in that the IETF document does not refer to a 24 CLI command. 21 A Yes, now I do. 22 Q Did you author that command? 22 that vit's highly likely that I checked in the fife 2 thirt it's highly likely that I checked in the fife 2 thirt it's highly likely that I checked in the fife 2 thirt it's highly likely that I checked in the fife 2 thirt it's highly likely that I checked in the fife 2 the tit it's highly likely that I checked in the fife 2 the tit it's highly likely that I checked in the fife 2 thirt it's highly likely that I checked in the fife 2 the tit it's highly likely that I checked in the fife 2 the tit it's highly likely that I checked in the fife 2 the tit it's highly likely that I checked in the fife 2 the tit it's highly likely that I checked in the fife 2 the tit's highly likely that I checked in the	19 IOS CLI; is that fair to say?	
22 As far as I can tell, it was there when I joined. 23 Q And the reason that you used it here was 24 because it was already used in other IOS CLI 25 commands? 15:44:37 Page 170 1 A By the time I implemented these commands, 3 from the CLI. 4 Q And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol; is that 6 fair to say? 7 A In which context? The term "SNMP" by 8 itself as an aeronym is industry standard protocol, 9 yes. 10 Q And then so the first two words in each of 15:45:07 11 these commands is "show snmp group." 13 A Yeah. 4 Q And the terms "user" and "group" also are 12 "show's many user" and "show snmp group." 13 A Yeah. 4 Q And the terms "user" and "group" also are 15 terms that are used in the IETF documents; is 15:45:21 16 that fair to say? 17 A "User" and "group" appear in the"snmp 18 user" and "group" appear in the IETF documents; or and "group" appear in the IETF documents? 20 A To the best of my knowledge, they refer to 21 the same things. But they're used in those IETF document does not refer to a 24 CLI command. 29 C Did you author that command? 21 that it's highly likely that I checked in the file 25 with this command. Especially with this command, 1 15:48:21 25 with this command. Especially with this command, 1 15:48:24 26 that it's highly likely that I checked in the file 27 with this command. Especially with this command, 1 15:48:24 2 term "host." 3 I'm going to say "term" instead of 4 "command," which you used, because we're talking 5 about an extension to the SNMP server command here. 15:48:32 6 fair to say? 7 A In which context? The term "SNMP" by 8 itself as an aeronym is industry standard protocol, 9 yes. 10 Previously this event was called a trap. 15:48:58 11 Now we're giving you the option of a trap or an 12 inform. 13 So there was some effort to differentiate 14 between what was before and what is now the 15 acceptable accepted way of configuring targets. 15:49:20 16 that fair to say? 17 A "User" and "group" appear in the"snmp 18 user" and "g	1	, ,
23 A I will go back to my earlier statement 24 because it was already used in other IOS CL1 25 commands? 15:44:37 Page 170 1 A By the time I implemented these commands, 2 show" was the standard way to display information 3 from the CLI. 4 Q And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol; is that 15:44:49 6 fair to say? 7 A In which context? The term "SNMP" by 8 itself as an acronym is industry standard protocol, 9 yes. 10 Q And then so the first two words in each of 15:45:07 11 these commands is "show snmp pare" and "group" alpso are 15 terms that are used in the IETF SNMP documents; is 15:45:21 16 that fair to say? 17 A "User" and "group" appear in the IETF documents. 19 Q And the way that they're used in those IETF documents? 19 Q And the way that they're used in the same 23 way in that the IETF document does not refer to a 24 CLI commands. 15:44:55 2 I with this command. Especially with this command, I 15:48:21 2 that it's highly likely that I checked in the file 25 with this command. Especially with this command, I 15:48:21 2 that it's highly likely that I checked in the file 25 with this command. Especially with this command, I 15:48:21 Page 172 2 that it's highly likely that I checked in the file 25 with this command. Especially with this command, I 15:48:24 2 term "host." 3 I'm not sure whether I was the original author of the 15:48:24 2 term "host." 3 I'm going to say "term" instead of 4 "command," which you used, because we're talking 5 about an extension to the SNMP server command here. 15:48:33 6 The reason I say "host" is, if I remember 7 right, the previous version, now that I'm reading 8 this, we are specifying the larget of an event that 9 is being messaged through SNMP. 10 Previously this event was called a trap. 15:48:58 11 Now we're giving you the option of a trap or an 12 inform. 12 inform. 13 So there was some effort to differentiate 14 between what was before and what is now the 15:49:20 16 that fair to say? 16 Q If you look at the page NM-1251, con	· · · · · · · · · · · · · · · · · · ·	21 A Yes, now I do.
24 that it's highly likely that I checked in the file 25 commands? 15:44:37 Page 170 1 A By the time I implemented these commands, I 15:44:38 2 "show" was the standard way to display information 3 from the CLI. 4 Q And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol; is that 15:44:49 6 fair to say? 7 A In which context? The term "SNMP" by 8 itself as an acronym is industry standard protocol, 9 yes. 10 Q And then so the first two words in each of 15:45:07 11 these commands is "show smmp." And then we have 12 "show smmp user" and "show smmp group." 13 A Yeah. 14 Q And the terms "user" and "group" also are 15 terms that are used in the IETF SNMP documents; is 15:45:21 16 that fair to say? 17 A "User" and "group" appear in the "-"snmp user" and "group" appear in the EETF documents. 19 Q And the way that they're used here is the 20 same way that they're used in those IETF documents? 21 A To the best of my knowledge, they refer to 22 the same things. But they're not used in the same 23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 15:44:38 1 am not sure whether I was the original author of the 15:48:24 2 term "host." 1 am not sure whether I was the original author of the 15:48:24 2 term "host." 1 am not sure whether I was the original author of the 15:48:24 2 term "host." 1 am not sure whether I was the original author of the 15:48:24 2 term "host." 1 am not sure whether I was the original author of the 15:48:24 2 term "host." 2 term "host." 2 term "host." 3 I m not sure whether I was the original author of the 15:48:24 2 term "host." 3 I'm going to say "term" instead of 4 "command," which you used, because we're talking 5 about an extension to the SNMP server command here. 15:48:33 6 The reason I say "host" is, if I remember 7 right, the previous version, now what I'm reading 8 this, we are specifying the target of an event that 9 is being messaged through SNMP. 10 Previously this event was calle	22 As far as I can tell, it was there when I joined.	22 Q Did you author that command?
25 commands? 15:44:37 Page 170 1 A By the time I implemented these commands, 15:44:38 2 "show" was the standard way to display information 3 from the CLI. 4 Q And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol; is that 15:44:49 6 fair to say? 7 A In which context? The term "SNMP" by 8 itself as an acronym is industry standard protocol, 9 yes. 10 Q And then so the first two words in each of 15:45:07 11 these commands is "show snmp." And then we have 12 "show snmp user" and "show snmp group." 13 A Yeah. 14 Q And the terms "user" and "group" also are 15 terms that are used in the IETF SNMP documents; is 15:45:21 feath fair to say? 16 that fair to say? 17 A "User" and "group" appear in the — "snmp 18 user" and "group" appear in the ETF documents. 19 Q And the way that they're used here is the 20 same way that they're used in the SETF documents? 20 the same things. But they're not used in the same 23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 15:44:38 1 I am not sure whether I was the original author of the 15:48:24 2 term "host." 3 I'm going to say "term" instead of 4 "command," which you used, because we're talking 5 about an extension to the SNMP server command here. 15:48:32 6 fair to say? 7 A In which context? The term "SNMP" by 7 right, the previous version, now that I'm reading 8 this, we are specifying the target of an event that 9 is being messaged through SNMP. 10 Previously this event was called a trap. 15:48:58 11 Now we're giving you the option of a trap or an 12 inform. 12 inform. 13 So there was some effort to differentiate 14 between what was before and what is now the 15 acceptable — accepted way of configuring targets. 15:49:20 16 Q If you look at the page NM-1251, control 17 number ends in 1063, this is a command history for 18 the command "snmp-server host," and it lists as the 19 first release IOS version 10. 20 Do you see that? 1 thought that that previous 22 version was "enab	23 Q And the reason that you used it here was	23 A I will go back to my earlier statement
Page 172 1 A By the time I implemented these commands, 15:44:38 2 "show" was the standard way to display information 3 from the CLI. 4 Q And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol; is that 15:44:49 6 fair to say? 7 A In which context? The term "SNMP" by 8 itself as an acronym is industry standard protocol, 9 yes. 10 Q And then so the first two words in each of 15:45:07 11 these commands is "show smmp." And then we have 12 "show smmp user" and "show snmp group." 13 A Yeah. 14 Q And the terms "user" and "group" also are 15 terms that are used in the IETF SNMP documents; is 16 that fair to say? 16 Q And the way that they're used here is the 20 same way that they're used in those IETF documents. 19 Q And the way that they're used in the same 23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 15:45:25 1 I am not sure whether I was the original author of the 15:48:24 2 term "host." 3 I'm going to say "term" instead of 4 "command," which you used, because we're talking 5 about an extension to the SNMP server command here. 15:48:33 6 fair to say? 7 A In which context? The term "SNMP" by 8 itself as an acronym is industry standard protocol, 9 yes. 9 (a The reason I say "host" is, if I remember 7 right, the previous version, now that I'm reading 8 this, we are specifying the target of an event that 9 is being messaged through SNMP. 10 Previously this event was called a trap. 15:48:58 11 Now we're giving you the option of a trap or an 12 inform. 13 So there was some effort to differentiate 14 between what was before and what is now the 15 acceptable — accepted way of configuring targets. 15:49:20 16 Q If you look at the page NM-1251, control 17 number ends in 1063, this is a command history for 18 the command "snmp-server host," and it lists as the 19 G Poyou see that? 15:49:20 20 Do you see that? 15:50:04 21 A "Host"? I thought that that previous 22 version was "enable trap." Let me double-check. 23 Yeah	24 because it was already used in other IOS CLI	24 that it's highly likely that I checked in the file
1 A By the time I implemented these commands, 15:44:38 2 "show" was the standard way to display information 3 from the CLI. 4 Q And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol; is that 15:44:49 5 discussed, is an industry standard protocol; is that 15:44:49 6 fair to say? 7 A In which context? The term "SNMP" by 8 itself as an acronym is industry standard protocol, 9 yes. 9 yes. 10 Q And then so the first two words in each of 15:45:07 11 these commands is "show snmp." And then we have 12 "show snmp user" and "show snmp group." 13 A Yeah. 14 Q And the terms "user" and "group" also are 15 terms that are used in the IETF SNMP documents; is 15:45:21 16 that fair to say? 17 A "User" and "group" appear in the IETF documents. 18 Q And the way that they're used here is the 20 same way that they're used in those IETF documents? 15:45:35 19 Q And the way that they're used here is the 20 same way that they're used in the same 23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 15:45:25 1 I am not sure whether I was the original author of the 15:48:24 2 term "host." 3 I'm going to say "term" instead of 4 "command," which you used, because we're talking 5 about an extension to the SNMP server command here. 15:48:33 6 The reason I say "host" is, if I remember 7 right, the previous version, now that I'm reading 8 this, we are specifying the target of an event that 9 is being messaged through SNMP. 10 Previously this event was called a trap. 15:48:58 11 Now we're giving you the option of a trap or an 12 inform. 12 inform. 13 So there was some effort to differentiate 14 between what was before and what is now the 15:49:20 14 between what was before and what is now the 15:49:20 15 acceptable — accepted way of configuring targets. 15:49:20 16 Q If you look at the page NM-1251, control 17 number ends in 1063, this is a command history for 18 the command "snmp-server host," and it lists as the 19 first release IOS version	1	
2 "show" was the standard way to display information 3 from the CLI. 4 Q And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol; is that 15:44:49 6 fair to say? 7 A In which context? The term "SNMP" by 8 itself as an acronym is industry standard protocol, 9 yes. 9 Q And then so the first two words in each of 15:45:07 11 these commands is "show snmp." And then we have 12 "show snmp user" and "show snmp group." 13 A Yeah. 14 Q And the terms "user" and "group" also are 15 terms that are used in the IETF SNMP documents; is 15:45:21 16 that fair to say? 17 A "User" and "group" appear in the "snmp 18 user" and "group" appear in the IETF documents. 19 Q And the way that they're used here is the same way that they're used in those IETF documents? 20 the same things. But they're not used in the same 21 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 15 terms that are used in the rems used in the rems used in the same 24 CLI command. In here they're used specifically for 25 CLI commands. 15 terms that are used in the rems used in the same 26 term "host." 3 I'm going to say "term" instead of 4 "command," which you used, because we're talking 3 about an extension to the SNMP server command here. 15:48:33 2 babut an extension to the SNMP server command here. 15:48:33 2 babut an extension to the SNMP server command here. 15:48:33 2 babut an extension to the SNMP server command here. 15:48:33 2 babut an extension to the SNMP server command here. 15:48:33 2 babut an extension to the SNMP server command here. 15:48:33 2 babut an extension to the SNMP server command here. 15:48:33 2 babut an extension to the SNMP server command here. 15:48:33 2 babut an extension to the SNMP server command here. 15:48:33 2 babut an extension to the SNMP server command here. 15:48:33 1 I'm going to say "term" instead of 1 because of the SNMP server command here. 15:48:33 1 I'm going to say "term" instead of 1 because of the same in say "ho	Page 170	Page 172
3 from the CLI. 4 Q And the term "SNMP," of course, as we've 5 discussed, is an industry standard protocol; is that 15:44:49 6 fair to say? 6 A In which context? The term "SNMP" by 8 itself as an aeronym is industry standard protocol, 9 yes. 9 Q And then so the first two words in each of 15:45:07 11 these commands is "show snmp." And then we have 12 "show snmp user" and "show snmp group." 13 A Yeah. 14 Q And the terms "user" and "group" also are 15 terms that are used in the IETF SNMP documents; is 15:45:21 16 that fair to say? 17 A "User" and "group" appear in the "snmp 18 user" and "group" appear in the IETF documents. 19 Q And the way that they're used here is the 20 same way that they're used in those IETF documents? 21 A To the best of my knowledge, they refer to 22 the same things. But they're used specifically for 25 CLI command. In here they're used specifically for 25 CLI commands. 15 discussed, is an industry standard protocol; a tromand," which you used, because we're talking 4 "command," which you used, because we're talking 5 about an extension to the SNMP server command here. 15:48:33 6 The reason I say "host" is, if I remember 7 right, the previous version, now that I'n reading 8 this, we are specifying the target of an event that 9 is being messaged through SNMP. 10 Previously this event was called a trap. 15:48:58 11 Now we're giving you the option of a trap or an 12 inform. 13 So there was some effort to differentiate 14 between what was before and what is now the 15 acceptable accepted way of configuring targets. 15:49:20 16 Q If you look at the page NM-1251, control 17 number ends in 1063, this is a command history for 18 the command "snmp-server host," and it lists as the 19 To be one of the page NM-1251, control 19 To be one of the page NM-1251, control 20 Do you see that? 15:50:04 21 A To the best of my knowledge, they refer to 21 A "Host"? I thought that that previous 22 the same things. But they're used specifically for 23 Yeah, this differs from my recollection. 24 CLI commands.	1 A By the time I implemented these commands, 15:44:38	3
4 "command," which you used, because we're talking 5 discussed, is an industry standard protocol; is that 15:44:49 6 fair to say? 7 A In which context? The term "SNMP" by 8 itself as an acronym is industry standard protocol, 9 yes. 9 And then so the first two words in each of 15:45:07 10 Q And then so the first two words in each of 15:45:07 11 these commands is "show snmp." And then we have 12 "show snmp user" and "show snmp group." 13 A Yeah. 14 Q And the terms "user" and "group" also are 15 terms that are used in the IETF SNMP documents; is 15:45:21 16 that fair to say? 17 A "User" and "group" appear in the "snmp 18 user" and "group" appear in the IETF documents. 19 Q And the way that they're used here is the 20 same way that they're used in those IETF documents? 21 A To the best of my knowledge, they refer to 22 the same things. But they're not used in the same 23 way in that the IETF document does not refer to a 24 CLI commands. 15:45:52 4 "command," which you used, because we're talking 5 about an extension to the SNMP server command here. 15:48:32 5 about an extension to the SNMP server command here. 15:48:32 6 The reason I say "host" is, if I remember 7 right, the previous version, now that I'm reading 8 this, we are specifying the target of an event that 9 is being messaged through SNMP. 10 Previously this event was called a trap. 15:48:58 11 Now we're giving you the option of a trap or an 12 inform. 13 So there was some effort to differentiate 14 between what was before and what is now the 15 acceptable accepted way of configuring targets. 15:49:20 16 Q If you look at the page NM-1251, control 17 number ends in 1063, this is a command history for 18 the command "snmp-server host," and it lists as the 19 first release IOS version 10. 20 Do you see that? 15:50:04 21 A "Host"? I thought that that previous 22 version was "enable trap." Let me double-check. 23 Yeah, this differs from my recollection. 15:50:29	2 "show" was the standard way to display information	2 term "host."
5 discussed, is an industry standard protocol; is that 15:44:49 6 fair to say? 6	3 from the CLI.	3 I'm going to say "term" instead of
6 fair to say? 7 A In which context? The term "SNMP" by 8 itself as an acronym is industry standard protocol, 9 yes. 9 is being messaged through SNMP. 10 Q And then so the first two words in each of 15:45:07 11 these commands is "show snmp." And then we have 12 "show snmp user" and "show snmp group." 13 A Yeah. 14 Q And the terms "user" and "group" also are 15 terms that are used in the IETF SNMP documents; is 15:45:21 16 that fair to say? 16 Q If you look at the page NM-1251, control 17 A "User" and "group" appear in the IETF documents. 19 Q And the way that they're used here is the 19 Q And the way that they're used in those IETF documents? 15 the same things. But they're not used in the same 24 CLI command. In here they're used specifically for 25 CLI commands. 15 this, we are specifying the target of an event that 16 this, we are specifying the target of an event that 17 right, the previous version, now that I'nn reading 8 this, we are specifying the target of an event that 9 is being messaged through SNMP. 10 Previously this event was called a trap. 15:48:58 11 Now we're giving you the option of a trap or an 12 inform. 13 So there was some effort to differentiate 14 between what was before and what is now the 15 terms that are used in the IETF SNMP documents; is 15:45:21 15 acceptable accepted way of configuring targets. 15:49:20 16 Q If you look at the page NM-1251, control 17 number ends in 1063, this is a command history for 18 the command "snmp-server host," and it lists as the 19 first release IOS version 10. 20 Do you see that? 15:50:04 21 A "Host"? I thought that that previous 22 version was "enable trap." Let me double-check. 23 Yeah, this differs from my recollection. 24 Q Sorry? 25 CLI commands. 15:45:52 26 A This differs from my recollection. 15:50:29	4 Q And the term "SNMP," of course, as we've	4 "command," which you used, because we're talking
7 right, the previous version, now that I'm reading 8 itself as an acronym is industry standard protocol, 9 yes. 9 yes. 9 is being messaged through SNMP. 10 Q And then so the first two words in each of 15:45:07 11 these commands is "show snmp." And then we have 12 "show snmp user" and "show snmp group." 13 A Yeah. 14 Q And the terms "user" and "group" also are 15 terms that are used in the IETF SNMP documents; is 15:45:21 16 that fair to say? 16 Q If you look at the page NM-1251, control 17 A "User" and "group" appear in the IETF documents. 19 Q And the way that they're used here is the 19 Q And the way that they're used in those IETF documents? 10 Previously this event was called a trap. 15:48:58 11 Now we're giving you the option of a trap or an 12 inform. 13 So there was some effort to differentiate 14 between what was before and what is now the 15 acceptable accepted way of configuring targets. 15:49:20 16 Q If you look at the page NM-1251, control 17 number ends in 1063, this is a command history for 18 the command "snmp-server host," and it lists as the 19 Q And the way that they're used here is the 19 G Ard the way that they're used in those IETF documents? 15:45:35 10 Do you see that? 15:50:04 21 A To the best of my knowledge, they refer to 22 the same things. But they're not used in the same 23 vay in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 15:45:52 27 A This differs from my recollection. 15:50:29	5 discussed, is an industry standard protocol; is that 15:44:49	5 about an extension to the SNMP server command here. 15:48:32
8 itself as an acronym is industry standard protocol, 9 yes. 10 Q And then so the first two words in each of 15:45:07 11 these commands is "show snmp." And then we have 12 "show snmp user" and "show snmp group." 13 A Yeah. 14 Q And the terms "user" and "group" also are 15 terms that are used in the IETF SNMP documents; is 15:45:21 16 that fair to say? 17 A "User" and "group" appear in the "snmp 18 user" and "group" appear in the IETF documents. 19 Q And the way that they're used here is the 19 Q And the way that they're used here is the 20 same way that they're used in those IETF documents? 21 A To the best of my knowledge, they refer to 22 the same things. But they're not used in the same 24 CLI command. In here they're used specifically for 25 CLI commands. 15 this, we are specifying the target of an event that 9 is being messaged through SNMP. 10 Previously this event was called a trap. 15:48:58 11 Now we're giving you the option of a trap or an 12 inform. 12 inform. 13 So there was some effort to differentiate 14 between what was before and what is now the 15 acceptable accepted way of configuring targets. 15:49:20 16 Q If you look at the page NM-1251, control 17 number ends in 1063, this is a command history for 18 the command "snmp-server host," and it lists as the 19 first release IOS version 10. 20 Do you see that? 15:50:04 21 A "Host"? I thought that that previous 22 version was "enable trap." Let me double-check. 23 Yeah, this differs from my recollection. 24 Q Sorry? 25 CLI commands. 15:45:52 26 A This differs from my recollection. 15:50:29	6 fair to say?	6 The reason I say "host" is, if I remember
9 yes. 9 yes. 9 is being messaged through SNMP. 10 Q And then so the first two words in each of 15:45:07 11 these commands is "show snmp." And then we have 12 "show snmp user" and "show snmp group." 12 inform. 13 A Yeah. 13 So there was some effort to differentiate 14 between what was before and what is now the 15 terms that are used in the IETF SNMP documents; is 15:45:21 15 acceptable accepted way of configuring targets. 15:49:20 16 that fair to say? 16 Q If you look at the page NM-1251, control 17 number ends in 1063, this is a command history for 18 user" and "group" appear in the IETF documents. 18 the command "snmp-server host," and it lists as the 19 Q And the way that they're used here is the 20 same way that they're used in those IETF documents? 15:45:35 20 Do you see that? 15:50:04 21 A To the best of my knowledge, they refer to 22 the same things. But they're not used in the same 22 version was "enable trap." Let me double-check. 23 Yeah, this differs from my recollection. 15:50:29	7 A In which context? The term "SNMP" by	7 right, the previous version, now that I'm reading
10 Q And then so the first two words in each of 15:45:07 11 these commands is "show snmp." And then we have 12 "show snmp user" and "show snmp group." 13 A Yeah. 14 Q And the terms "user" and "group" also are 15 terms that are used in the IETF SNMP documents; is 15:45:21 16 that fair to say? 16 that fair to say? 17 A "User" and "group" appear in the "snmp 18 user" and "group" appear in the IETF documents. 19 Q And the way that they're used here is the 19 Q And the way that they're used here is the 20 same way that they're used in those IETF documents? 21 A To the best of my knowledge, they refer to 22 the same things. But they're not used in the same 23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 15:48:58 11 Now we're giving you the option of a trap or an 12 inform. 12 inform. 13 So there was some effort to differentiate 14 between what was before and what is now the 15 acceptable accepted way of configuring targets. 15:49:20 16 Q If you look at the page NM-1251, control 17 number ends in 1063, this is a command history for 18 the command "snmp-server host," and it lists as the 19 first release IOS version 10. 20 Do you see that? 21 A "Host"? I thought that that previous 22 version was "enable trap." Let me double-check. 23 Yeah, this differs from my recollection. 24 CLI command. In here they're used specifically for 25 CLI commands. 15:45:52 26 A This differs from my recollection. 15:50:29	8 itself as an acronym is industry standard protocol,	8 this, we are specifying the target of an event that
11 these commands is "show snmp." And then we have 12 "show snmp user" and "show snmp group." 13 A Yeah. 14 Q And the terms "user" and "group" also are 15 terms that are used in the IETF SNMP documents; is 16 that fair to say? 16 that fair to say? 17 A "User" and "group" appear in the "snmp 18 user" and "group" appear in the IETF documents. 19 Q And the way that they're used here is the 19 Q And the way that they're used in those IETF documents? 20 same way that they're used in those IETF documents? 21 A To the best of my knowledge, they refer to 22 the same things. But they're not used in the same 23 way in that the IETF document does not refer to a 24 CLI commands. 15:45:52 17 Now we're giving you the option of a trap or an 12 inform. 13 So there was some effort to differentiate 14 between what was before and what is now the 15 acceptable accepted way of configuring targets. 15:49:20 16 Q If you look at the page NM-1251, control 17 number ends in 1063, this is a command history for 18 the command "snmp-server host," and it lists as the 19 first release IOS version 10. 20 Do you see that? 21 A "Host"? I thought that that previous 22 version was "enable trap." Let me double-check. 23 Yeah, this differs from my recollection. 24 Q Sorry? 25 CLI commands. 15:45:52 26 A This differs from my recollection. 15:50:29	9 yes.	9 is being messaged through SNMP.
12 "show snmp user" and "show snmp group." 13 A Yeah. 14 Q And the terms "user" and "group" also are 15 terms that are used in the IETF SNMP documents; is 15:45:21 15 acceptable accepted way of configuring targets. 15:49:20 16 that fair to say? 16 Q If you look at the page NM-1251, control 17 A "User" and "group" appear in the "snmp 18 user" and "group" appear in the IETF documents. 19 Q And the way that they're used here is the 20 same way that they're used in those IETF documents? 21 A To the best of my knowledge, they refer to 22 the same things. But they're not used in the same 23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 12 inform. 13 So there was some effort to differentiate 14 between what was before and what is now the 15 acceptable accepted way of configuring targets. 15:49:20 16 Q If you look at the page NM-1251, control 17 number ends in 1063, this is a command history for 18 the command "snmp-server host," and it lists as the 19 first release IOS version 10. 20 Do you see that? 21 A "Host"? I thought that that previous 22 version was "enable trap." Let me double-check. 23 Yeah, this differs from my recollection. 24 Q Sorry? 25 CLI commands. 15:50:29	10 Q And then so the first two words in each of 15:45:07	Previously this event was called a trap. 15:48:58
13 So there was some effort to differentiate 14 Q And the terms "user" and "group" also are 15 terms that are used in the IETF SNMP documents; is 15:45:21 15 acceptable accepted way of configuring targets. 15:49:20 16 that fair to say? 16 Q If you look at the page NM-1251, control 17 A "User" and "group" appear in the "snmp 18 user" and "group" appear in the IETF documents. 19 Q And the way that they're used here is the 20 same way that they're used in those IETF documents? 21 A To the best of my knowledge, they refer to 22 the same things. But they're not used in the same 23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 13 So there was some effort to differentiate 14 between what was before and what is now the 15 terms that are used in the IETF SNMP documents; is 15:45:21 15 acceptable accepted way of configuring targets. 15:49:20 16 Q If you look at the page NM-1251, control 17 number ends in 1063, this is a command history for 18 the command "snmp-server host," and it lists as the 19 first release IOS version 10. 20 Do you see that? 21 A "Host"? I thought that that previous 22 version was "enable trap." Let me double-check. 23 Yeah, this differs from my recollection. 24 Q Sorry? 25 CLI commands. 15:45:52 26 A This differs from my recollection. 15:50:29	11 these commands is "show snmp." And then we have	11 Now we're giving you the option of a trap or an
14 between what was before and what is now the 15 terms that are used in the IETF SNMP documents; is 15:45:21 16 that fair to say? 16 Waser" and "group" appear in the "snmp 17 A "User" and "group" appear in the IETF documents. 19 Q And the way that they're used here is the 20 same way that they're used in those IETF documents? 21 A To the best of my knowledge, they refer to 22 the same things. But they're not used in the same 23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 15:45:52 16 Q If you look at the page NM-1251, control 17 number ends in 1063, this is a command history for 18 the command "snmp-server host," and it lists as the 19 first release IOS version 10. 20 Do you see that? 21 A "Host"? I thought that that previous 22 version was "enable trap." Let me double-check. 23 Yeah, this differs from my recollection. 24 Q Sorry? 25 CLI commands. 15:45:52 26 A This differs from my recollection. 15:50:29	12 "show snmp user" and "show snmp group."	12 inform.
15 terms that are used in the IETF SNMP documents; is 15:45:21 16 that fair to say? 16 that fair to say? 17 A "User" and "group" appear in the "snmp 18 user" and "group" appear in the IETF documents. 19 Q And the way that they're used here is the 19 Q And the way that they're used in those IETF documents? 20 same way that they're used in those IETF documents? 21 A To the best of my knowledge, they refer to 22 the same things. But they're not used in the same 23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 15:45:52 16 Q If you look at the page NM-1251, control 17 number ends in 1063, this is a command history for 18 the command "snmp-server host," and it lists as the 19 first release IOS version 10. 20 Do you see that? 21 A "Host"? I thought that that previous 22 version was "enable trap." Let me double-check. 23 Yeah, this differs from my recollection. 24 Q Sorry? 25 CLI commands. 15:45:52 26 A This differs from my recollection. 15:50:29	13 A Yeah.	So there was some effort to differentiate
16 that fair to say? A "User" and "group" appear in the "snmp 18 user" and "group" appear in the IETF documents. 19 Q And the way that they're used here is the 20 same way that they're used in those IETF documents? 11 A To the best of my knowledge, they refer to 22 the same things. But they're not used in the same 23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 16 Q If you look at the page NM-1251, control 17 number ends in 1063, this is a command history for 18 the command "snmp-server host," and it lists as the 19 first release IOS version 10. 20 Do you see that? 21 A "Host"? I thought that that previous 22 version was "enable trap." Let me double-check. 23 Yeah, this differs from my recollection. 24 Q Sorry? 25 CLI commands. 15:45:52 26 A This differs from my recollection. 15:50:29	14 Q And the terms "user" and "group" also are	14 between what was before and what is now the
17 number ends in 1063, this is a command history for 18 user" and "group" appear in the IETF documents. 19 Q And the way that they're used here is the 20 same way that they're used in those IETF documents? 21 A To the best of my knowledge, they refer to 22 the same things. But they're not used in the same 23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 17 number ends in 1063, this is a command history for 18 the command "snmp-server host," and it lists as the 19 first release IOS version 10. 20 Do you see that? 21 A "Host"? I thought that that previous 22 version was "enable trap." Let me double-check. 23 Yeah, this differs from my recollection. 24 Q Sorry? 25 CLI commands. 15:45:52 26 A This differs from my recollection. 15:50:29	15 terms that are used in the IETF SNMP documents; is 15:45:21	15 acceptable accepted way of configuring targets. 15:49:20
18 user" and "group" appear in the IETF documents. 19 Q And the way that they're used here is the 20 same way that they're used in those IETF documents? 15:45:35 20 Do you see that? 15:50:04 21 A To the best of my knowledge, they refer to 22 the same things. But they're not used in the same 23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 18 the command "snmp-server host," and it lists as the 19 first release IOS version 10. 20 Do you see that? 21 A "Host"? I thought that that previous 22 version was "enable trap." Let me double-check. 23 Yeah, this differs from my recollection. 24 Q Sorry? 25 CLI commands. 15:45:52 26 A This differs from my recollection. 15:50:29	16 that fair to say?	16 Q If you look at the page NM-1251, control
19 Q And the way that they're used here is the 20 same way that they're used in those IETF documents? 15:45:35 20 Do you see that? 15:50:04 21 A To the best of my knowledge, they refer to 22 the same things. But they're not used in the same 23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 15:45:52 19 first release IOS version 10. 20 Do you see that? 21 A "Host"? I thought that that previous 22 version was "enable trap." Let me double-check. 23 Yeah, this differs from my recollection. 24 Q Sorry? 25 CLI commands. 15:45:52 25 A This differs from my recollection. 15:50:29	17 A "User" and "group" appear in the "snmp	17 number ends in 1063, this is a command history for
20 same way that they're used in those IETF documents? 15:45:35 20 Do you see that? 15:50:04 21 A "Host"? I thought that that previous 22 the same things. But they're not used in the same 23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 15:45:52 20 Do you see that? 15:50:04 21 A "Host"? I thought that that previous 22 version was "enable trap." Let me double-check. 23 Yeah, this differs from my recollection. 24 Q Sorry? 25 CLI commands. 15:50:29	18 user" and "group" appear in the IETF documents.	18 the command "snmp-server host," and it lists as the
21 A To the best of my knowledge, they refer to 22 the same things. But they're not used in the same 23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 21 A "Host"? I thought that that previous 22 version was "enable trap." Let me double-check. 23 Yeah, this differs from my recollection. 24 Q Sorry? 25 CLI commands. 15:45:52 26 A This differs from my recollection. 15:50:29	19 Q And the way that they're used here is the	19 first release IOS version 10.
22 the same things. But they're not used in the same 23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 15:45:52 22 version was "enable trap." Let me double-check. 23 Yeah, this differs from my recollection. 24 Q Sorry? 25 A This differs from my recollection. 15:50:29	20 same way that they're used in those IETF documents? 15:45:35	20 Do you see that? 15:50:04
23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 27 Yeah, this differs from my recollection. 28 Yeah, this differs from my recollection. 29 Sorry? 20 A This differs from my recollection.	21 A To the best of my knowledge, they refer to	21 A "Host"? I thought that that previous
23 way in that the IETF document does not refer to a 24 CLI command. In here they're used specifically for 25 CLI commands. 27 Yeah, this differs from my recollection. 28 Yeah, this differs from my recollection. 29 Sorry? 20 A This differs from my recollection.	i i	22 version was "enable trap." Let me double-check.
25 CLI commands. 15:45:52 25 A This differs from my recollection. 15:50:29	23 way in that the IETF document does not refer to a	23 Yeah, this differs from my recollection.
l	24 CLI command. In here they're used specifically for	24 Q Sorry?
Page 171 Page 173	i de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	· · · · · · · · · · · · · · · · · · ·
	Page 171	Page 173

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 14 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 14 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS EYES ONLY

- 1	1 dictate whether the SNMP is an industry standard or 16:21:36 2 not?	1	Cisco's CLI command expressions appear in any of Cisco's competitors' CLI?	16:25:03
	MR. SANTACANA: Same objections.	3		
	THE WITNESS: I could only offer an	1	attorneys, I am I cannot recall if I ever	
	5 opinion on this. And if you would like my opinion, 16:21:45	1	investigated whether Cisco's CLI expressions	16:25:20
1	5 if enough vendors do not implement a particular		appeared in any other competitor's product.	10.23.20
1	7 proposal, I do not believe that proposal should be	7		
	3 called a standard.	8		
		_		
9	,	1	myself I want to protect myself from perjuring	16.05.41
ł	turn the phone off now. Sorry. I turned it on, 16:22:05	1	myself here. By saying I cannot recall that does	16:25:41
1	checking. Sorry. Thank you.		not mean that it did not happen. My memory doesn't	
	BY MR. TUNG:	1	bring it up right now.	
13		13	•	
14		1	don't recall something, that's perfectly fine to say	
15		1	that. 16:25:51	
	whether the specific command expressions that appear	16	, ,	
	in Exhibit 329 are used in this exact form in other		BY MR. TUNG:	
18	competitors' CLI?	18	Q And I think that's really the intent of my	
19	J 1		question, if you recall any instance in which you	
20	Q Yeah. 16:23:04	20	have investigated whether a Cisco's competitor's CLI	16:25:57
21	Have you ever done an investigation	21	was identical to Cisco's CLI.	
22	whether these specific command expressions that	22	A I have not to the best of my recollection	
23	appear in Exhibit 329 appear in Cisco's competitors'	23	at the moment. Nothing comes to mind.	
24	CLI?	24	MR. TUNG: I have no further questions.	
25	A I believe I may have gone looking for 16:23:20 Page 190	25	MR. SANTACANA: I don't have any.	16:26:16 Page 192
1	these in at least one competitor's CLI. 16:23:21	1	THE VIDEO OPERATOR: This is the end of	16:26:19
2	Q And did you determine whether any of these	2	today's deposition of Mr. Ramanathan Kavasseri. We	
3	command expressions appeared exactly the same way in	3	are off the record at 4:26 p.m. The total number of	
	the competitor's CLI?	4	media used was two and it will be retained by	
5	A I would prefer to not answer that question 16:23:52		Veritext. Thank you. 16:26:28	
6	because it might impact work product.	6	(TIME NOTED: 4:26 p.m.)	
7	Q Okay. So let me rephrase the question.	7	000	
8	So setting aside any work done at the	8		
	direction of attorneys, have you investigated	9		
	whether any command expressions that appear in 16:24:10	10		
	Exhibit 329 appear identically in a Cisco	11		
	competitor's CLI?	12		
13	A To the best of my recollection, I have not	13		
	investigated this in any other vendors' products.	13		
		15		
15				
	broader, have you investigated whether any of	16		
	Cisco's CLI command expressions appear in any Cisco	17		
	competitors' CLI, again, setting aside any work done	18		
	at the direction of attorneys?	19		
20	A I want to clarify with my previous answer 16:24:49	20		
	that's setting aside any work product.	21		
22	Can you repeat the second question again?	22		
23	Q The second question, I'm going to say,	23		
		24		
	setting aside any work product, any work done for			
	attorneys, have you investigated whether any of 16:24:59 Page 191	25		Page 193

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 15 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 15 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS EYES ONLY

1
3 4 5 5 6 6 7 I. RAMANATHAN KAVASSERI, do hereby declare 9 under penalty of perjury that I have read the 10 foregoing transcript; that I have made any 11 corrections as appear noted, in ink, initialed by 12 me, or attached hereto; that my testimony as 13 contained herein, as corrected, is true and correct. 14 EXECUTED this day of 15 2016, at 16 (City) (State)
4 5 6 7 8 I, RAMANATHAN KAVASSERI, do hereby declare 9 under penalty of perjury that I have read the 10 foregoing transcript; that I have made any 11 corrections as appear noted, in ink, initialed by 12 me, or attached herein, as corrected, is true and correct. 14 EXECUTED this day of 15 2016, at 16 (City) (State) 17 18 19 20
I, RAMANATHAN KAVASSERI, do hereby declare 9 under penalty of perjury that I have read the 10 foregoing transcript; that I have made any 11 corrections as appear noted, in ink, initialed by 12 me, or attached hereto; that my testimony as 13 contained herein, as corrected, is true and correct. 14 EXECUTED this
I, RAMANATHAN KAVASSERI, do hereby declare 9 under penalty of perjury that I have read the 10 foregoing transcript; that I have made any 11 corrections as appear noted, in ink, initialed by 12 me, or attached hereto; that my testimony as 13 contained herein, as corrected, is true and correct. 14 EXECUTED this
I, RAMANATHAN KAVASSERI, do hereby declare 9 under penalty of perjury that I have read the 10 foregoing transcript; that I have made any 11 corrections as appear noted, in ink, initialed by 12 me, or attached hereto; that my testimony as 13 contained herein, as corrected, is true and correct. 14 EXECUTED this day of 15 2016, at 16 (City) (State) 17 18 19 20
8 I, RAMANATHAN KAVASSERI, do hereby declare 9 under penalty of perjury that I have read the 10 foregoing transcript; that I have made any 11 corrections as appear noted, in ink, initialed by 11 me, or attached hereto; that my testimony as 13 contained herein, as corrected, is true and correct. 14 EXECUTED this day of, 15 2016, at, 16 (City) (State) 17 18 19 20
9 under penalty of perjury that I have read the 10 foregoing transcript; that I have made any 11 corrections as appear noted, in ink, initialed by 12 me, or attached hereto; that my testimony as 13 contained herein, as corrected, is true and correct. 14 EXECUTED this
10 foregoing transcript; that I have made any 11 corrections as appear noted, in ink, initialed by 12 me, or attached hereto; that my testimony as 13 contained herein, as corrected, is true and correct. 14 EXECUTED this
11 corrections as appear noted, in ink, initialed by 12 me, or attached hereto; that my testimony as 13 contained herein, as corrected, is true and correct. 14 EXECUTED this day of 15 2016, at 16 (City) (State) 17 18 19 20 RAMANATHAN KAVASSERI 21 22 23 24 25 Page 194 1 I, the undersigned, a Certified Shorthand 2 Reporter of the State of California, do hereby 3 certify: 4 That the foregoing proceedings were taken 5 before me at the time and place herein set forth; 6 that any witnesses in the foregoing proceedings, 7 prior to testifying, were administered an oath; that 8 a record of the proceedings was made by me using 9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
12 me, or attached hereto; that my testimony as 13 contained heretin, as corrected, is true and correct. 14 EXECUTED this day of 15 2016, at 16 (City) (State) 17 18 19 20 RAMANATHAN KAVASSERI 21 22 23 24 25 Page 194 1 I, the undersigned, a Certified Shorthand 2 Reporter of the State of California, do hereby 3 certify: 4 That the foregoing proceedings were taken 5 before me at the time and place herein set forth; 6 that any witnesses in the foregoing proceedings, 7 prior to testifying, were administered an oath; that 8 a record of the proceedings was made by me using 9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
13 contained herein, as corrected, is true and correct. 14 EXECUTED this day of 15 2016, at 16 (City) (State) 17 18 19 20 RAMANATHAN KAVASSERI 21 22 23 24 25 Page 194 1 I, the undersigned, a Certified Shorthand 2 Reporter of the State of California, do hereby 3 certify: 4 That the foregoing proceedings were taken 5 before me at the time and place herein set forth; 6 that any witnesses in the foregoing proceedings, 7 prior to testifying, were administered an oath; that 8 a record of the proceedings was made by me using 9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
14 EXECUTED this day of 15 2016, at 16 (City) (State) 17 18 19 20 RAMANATHAN KAVASSERI 21 22 23 24 25 Page 194 1 I, the undersigned, a Certified Shorthand 2 Reporter of the State of California, do hereby 3 certify: 4 That the foregoing proceedings were taken 5 before me at the time and place herein set forth; 6 that any witnesses in the foregoing proceedings, 7 prior to testifying, were administered an oath; that 8 a record of the proceedings was made by me using 9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
15 2016, at
17 18 19 20 RAMANATHAN KAVASSERI 21 22 23 24 25 Page 194 1 I, the undersigned, a Certified Shorthand 2 Reporter of the State of California, do hereby 3 certify: 4 That the foregoing proceedings were taken 5 before me at the time and place herein set forth; 6 that any witnesses in the foregoing proceedings, 7 prior to testifying, were administered an oath; that 8 a record of the proceedings was made by me using 9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
RAMANATHAN KAVASSERI RAMANATHAN KAVASSERI I, the undersigned, a Certified Shorthand Reporter of the State of California, do hereby certify: That the foregoing proceedings were taken before me at the time and place herein set forth; that any witnesses in the foregoing proceedings, prior to testifying, were administered an oath; that a record of the proceedings was made by me using machine shorthand which was thereafter transcribed under my direction; that the foregoing transcript is
RAMANATHAN KAVASSERI RAMANATHAN KAVASSERI Ramanathan Kavasseri I, the undersigned, a Certified Shorthand Reporter of the State of California, do hereby certify: That the foregoing proceedings were taken before me at the time and place herein set forth; that any witnesses in the foregoing proceedings, prior to testifying, were administered an oath; that a record of the proceedings was made by me using machine shorthand which was thereafter transcribed under my direction; that the foregoing transcript is
20 RAMANATHAN KAVASSERI 21 22 23 24 25 Page 194 1 I, the undersigned, a Certified Shorthand 2 Reporter of the State of California, do hereby 3 certify: 4 That the foregoing proceedings were taken 5 before me at the time and place herein set forth; 6 that any witnesses in the foregoing proceedings, 7 prior to testifying, were administered an oath; that 8 a record of the proceedings was made by me using 9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
21 22 23 24 25 Page 194 1 I, the undersigned, a Certified Shorthand 2 Reporter of the State of California, do hereby 3 certify: 4 That the foregoing proceedings were taken 5 before me at the time and place herein set forth; 6 that any witnesses in the foregoing proceedings, 7 prior to testifying, were administered an oath; that 8 a record of the proceedings was made by me using 9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
22 23 24 25 Page 194 1 I, the undersigned, a Certified Shorthand 2 Reporter of the State of California, do hereby 3 certify: 4 That the foregoing proceedings were taken 5 before me at the time and place herein set forth; 6 that any witnesses in the foregoing proceedings, 7 prior to testifying, were administered an oath; that 8 a record of the proceedings was made by me using 9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
23 24 25 Page 194 1 I, the undersigned, a Certified Shorthand 2 Reporter of the State of California, do hereby 3 certify: 4 That the foregoing proceedings were taken 5 before me at the time and place herein set forth; 6 that any witnesses in the foregoing proceedings, 7 prior to testifying, were administered an oath; that 8 a record of the proceedings was made by me using 9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
24 25 Page 194 1 I, the undersigned, a Certified Shorthand 2 Reporter of the State of California, do hereby 3 certify: 4 That the foregoing proceedings were taken 5 before me at the time and place herein set forth; 6 that any witnesses in the foregoing proceedings, 7 prior to testifying, were administered an oath; that 8 a record of the proceedings was made by me using 9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
Page 194 I, the undersigned, a Certified Shorthand Reporter of the State of California, do hereby certify: That the foregoing proceedings were taken before me at the time and place herein set forth; that any witnesses in the foregoing proceedings, prior to testifying, were administered an oath; that a record of the proceedings was made by me using machine shorthand which was thereafter transcribed under my direction; that the foregoing transcript is
Page 194 1 I, the undersigned, a Certified Shorthand 2 Reporter of the State of California, do hereby 3 certify: 4 That the foregoing proceedings were taken 5 before me at the time and place herein set forth; 6 that any witnesses in the foregoing proceedings, 7 prior to testifying, were administered an oath; that 8 a record of the proceedings was made by me using 9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
1 I, the undersigned, a Certified Shorthand 2 Reporter of the State of California, do hereby 3 certify: 4 That the foregoing proceedings were taken 5 before me at the time and place herein set forth; 6 that any witnesses in the foregoing proceedings, 7 prior to testifying, were administered an oath; that 8 a record of the proceedings was made by me using 9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
2 Reporter of the State of California, do hereby 3 certify: 4 That the foregoing proceedings were taken 5 before me at the time and place herein set forth; 6 that any witnesses in the foregoing proceedings, 7 prior to testifying, were administered an oath; that 8 a record of the proceedings was made by me using 9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
3 certify: 4 That the foregoing proceedings were taken 5 before me at the time and place herein set forth; 6 that any witnesses in the foregoing proceedings, 7 prior to testifying, were administered an oath; that 8 a record of the proceedings was made by me using 9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
That the foregoing proceedings were taken before me at the time and place herein set forth; that any witnesses in the foregoing proceedings, prior to testifying, were administered an oath; that a record of the proceedings was made by me using machine shorthand which was thereafter transcribed under my direction; that the foregoing transcript is
5 before me at the time and place herein set forth; 6 that any witnesses in the foregoing proceedings, 7 prior to testifying, were administered an oath; that 8 a record of the proceedings was made by me using 9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
7 prior to testifying, were administered an oath; that 8 a record of the proceedings was made by me using 9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
8 a record of the proceedings was made by me using 9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
10 under my direction; that the foregoing transcript is
11 a true record of the testimony given. 12 Further, that if the foregoing pertains to
13 the original transcript of a deposition in a Federal
14 Case, before completion of the proceedings, review
15 of the transcript [X] was [] was not requested.
16 I further certify I am neither financially
17 interested in the action nor a relative or employee
18 of any attorney or any party to this action.
19 IN WITNESS WHEREOF, I have this date
20 subscribed my name.
21 22 Dated: 3/7/16
22 Dated: 3/7/16 23
22 Dated: 3/7/16 23 24
22 Dated: 3/7/16 23 24

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 16 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 16 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

```
UNITED STATES DISTRICT COURT
 1
                  NORTHERN DISTRICT OF CALIFORNIA
 2
 3
                         SAN JOSE DIVISION
 4
 5
      CISCO SYSTEMS,
                          )
 6
      INC.,
                          )
 7
           Plaintiff,
                         ) No. 5:14-cv-05344-BlF (PSG)
 8
               vs.
 9
      ARISTA NETWORKS,
      INC.,
10
           Defendant.
11
12
13
       CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER
14
             VIDEOTAPED DEPOSITION OF ANTHONY J. LI
15
16
                          Palo Alto, CA
17
                    Monday, February 1, 2016
                             Volume I
18
19
20
     Reported by: SUSAN F. MAGEE, RPR, CCRR, CLR
21
22
     CSR No. 11661
23
     JOB No. 2224600
24
25
     PAGES 1-258
                                                        Page 1
```

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 17 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 17 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

	UNDER THE PROTECTIVE ORDER
1 UNITED STATES DISTRICT COURT	1 INDEX
2 NORTHERN DISTRICT OF CALIFORNIA	2
3 SAN JOSE DIVISION	3 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER
4	4 VIDEO DEPOSITION OF ANTHONY J LI
5 CISCO SYSTEMS,)	5 Volume I
6 INC,)	6 EXAMINATION BY PAGE
7 Plaintiff,)	7 BY MR WONG 9
8 vs) No 5:14-cv-05344-BIF (PSG)	8 BY MR PAK 191
9 ARISTA NETWORKS,)	9
10 INC,)	10
11 Defendant)	11
12	12
13	13
14	14
15 CONFIDENTIAL INFORMATION UNDER THE	15
16 PROTECTIVE ORDER VIDEO DEPOSITION OF ANTHONY J LI	16
17 taken on behalf of Defendant at WILSON, SONSINI,	17
18 GOODRICH & ROSATI, 601 South California Avenue,	18
19 Palo Alto, CA 94304, beginning at 9:13 a m and	19
20 ending at 4:17 p m on Monday, February 1, 2016,	20
21 before Susan F Magee, RPR, CCRR, CLR, Certified	21
22 Shorthand Reporter No 11661	22
23	23
24	24
25 Page 2	Page 4
1 ADDE AD ANICEG.	1 EVIIDITO
1 APPEARANCES: 2	1 EXHIBITS 2 NUMBER DESCRIPTION PAGE
3 For the Plaintiff:	3
4 QUINN, EMANUEL, URQUHART & SULLIVAN	4 Exhibit 136 LinkedIn Profile (8 pages) 12
5 BY: SEAN PAK, ESQ.	5 Exhibit 137 RFC Table (3 pages) 90
6 50 California Street	6 Exhibit 138 March 1995 RFC 1771, A Border 100
7 22nd Floor	7 Gateway Protocol 4 (BGP-4) (57
8 San Francisco, CA 94111	8 pages)
9 (415) 875-6600	9 Exhibit 139 December 1995 RFC 1887, An 105
10 seanpak@quinnemanuel.com	10 Architecture for IPv6 Unicast
11 seanpak@quinnemanuer.com	11 Address Allocation,
12 For the Defendant:	12 ARISTANDCA00025747-ARISTANDCA
13 KEKER & VAN NEST LLP	13 00025772
14 BY: RYAN WONG, ESQ.	14 Exhibit 140 June 1996 RFC 1966, BGP Route 111
15 BRIAN L. FERRALL, ESQ.	15 Reflection, An Alternative to
16 633 Battery Street	16 Full Mesh IBGP,
17 San Francisco, CA 94111-1809	17 ARISTANDCA00025927-ARISTANDCA
18 (415) 773-6682	18 00025933
19 rwong@kvn.com	19 Exhibit 141 October 2008 RFC 2966, 116
· -	20 Domain-Wide Prefix Distribution
20 hferrall@kyn.com	
20 bferrall@kvn.com	With I Wo-Level IN-IN 116 hages 1
21	21 with Two-Level IS-IS (16 pages) 22 Exhibit 142 August 1996 RFC 1997 BGP 119
21 22 The Videographer:	22 Exhibit 142 August 1996 RFC 1997, BGP 119
21 22 The Videographer: 23 JEFREE ANDERSON	22 Exhibit 142 August 1996 RFC 1997, BGP 119 23 Communities Attribute,
21 22 The Videographer:	22 Exhibit 142 August 1996 RFC 1997, BGP 119

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 18 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

1 EXHIBITS (continued)	1 Palo Alto, CA, Monday February 1, 2016
2 NUMBER DESCRIPTION PAGE	2 9:13 a.m.
3	3
4 Exhibit 143 March 1998 RFC 2281, Cisco Hot 124	4 THE VIDEOGRAPHER: Good morning. We're on
5 Standby Router Protocol (HSRP),	5 the record at 9:13 a.m. on February 1st, 2016. This 09:13:47
6 ARISTANDCA00026832-ARISTANDCA	6 is the video recorded deposition of so sorry. Of
7 00026848	7 Anthony Li here with our court reporter Susan Magee.
8 Exhibit 144 E-mail String Containing 143	8 My name is Jefree Anderson. We are here
	, and the second
9 9/22/92 E-mail from/to Toni Li,	9 from Veritext Legal Solutions at the request of
10 TS-00000066	10 counsel for the defendant or the plaintiff? 09:14:16
11 Exhibit 145 Procket Networks PRO/8000 163	MR. WONG: Defendants.
12 Series Software Introduction	12 THE VIDEOGRAPHER: For the defendant. This
13 (144 pages)	13 deposition is being held at Wilson Sonsini at
14 Exhibit 146 Procket Networks PRO/8000 164	14 601 California Avenue, Palo Alto, California. The
15 Series IPv6 Routing Protocols	15 caption of this case is Cisco Systems, Incorporated 09:14:31
16 (180 pages)	16 vs. Arista Networks, Incorporated. The case number
17 Exhibit 147 Procket Networks PRO/8000 164	17 is 5:14-ev-05344.
18 Series System Management and	Please note that audio and video recording
19 Operations (604 pages)	19 will take place unless all parties agree to go off
20 Exhibit 148 Cisco's 6th Supplemental 167	20 the record, and microphones are sensitive and may 09:14:53
21 Response to Interrogatory NO.	21 pick up whispers, private conversations and cellular
22 16 and Response to	22 interference; so please be aware of that.
23 Interrogatory No. 19 Amended	23 Beginning with our noticing attorney,
24 Exhibit F (45 pages)	24 please state your name and the firm you represent.
`	25 MR. WONG: Ryan Wong from Keker & Van Nest 09:15:05
Page 6	Page 8
1 EXHIBITS (continued)	1 for defendant Arista Networks.
2 NUMBER DESCRIPTION PAGE	2 MR. FERRALL: Brian Ferrall, Keker & Van
3	3 Nest, also for Arista.
4 Exhibit 150 1/20/96 E-mail from Toni Li to 183	4 MR. PAK: Sean Pak of Quinn for Cisco.
5 Bill W., CSI-CLI-00746246	5 THE VIDEOGRAPHER: Thank you. 09:15:16
6 Exhibit 151 CSCdi14533, CSI-CLI-01339850 185	6 Will the court reporter please swear in the
7 Exhibit 152 Group of E-mails Containing 239	7 witness.
8 2/23/1996 E-mail from Tony Li	8
9 to widmer@cisco.com,	9 ANTHONY J. LI,
	10 having been administered an oath, was examined and 09:15:19
	11 testified as follows:
11 CSI-CLI-00/40347	
	12 EVAMENIA TIONI DV MD. WONG
<u> </u>	13 EXAMINATION BY MR. WONG
14	14
15	15 Q. Good morning, Mr. Li. 09:15:29
1	16 A. Good morning.
l i	17 Q. Please state your full name.
l i	18 A. Anthony Joseph Li.
	19 Q. Do you live in the Bay Area, Mr. Li?
20	20 A. I do. 09:15:36
21	
22	
23	
24	Q. Mr. Li, do you understand that are you
25	25 testifying here in response to a subpoena in this 09:15:46
Page 7	Page 9

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 19 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

_		T .	ADER THE FROTECTIVE ORDER
1	lawsuit?	1	obviously if anything that's confidential to Cisco,
2	A. I do.	2	! I will be designating that as confidential under the
3	Q. Have you seen the subpoena in the lawsuit?	3	protective order.
4	A. Yes, I have.	4	THE WITNESS: Okay.
5	Q. Mr. Li, are you represented by an attorney 09:15:55	5	BY MR. WONG: Q. And I will be taking 09:17:31
6	at this deposition?	6	breaks during the day, Mr. Li. I'll try to take a
7	A. No, I am not.	7	break about every hour.
8	Q. Have you been deposed before, Mr. Li?	8	But if you would like to take a break for
9		9	any reason, just let me know, and I will try to
10		10	accommodate that, okay? 09:17:40
11		11	
12	this goes.	12	•
13		13	Web site called LinkedIn?
14	testifying under oath under penalty of perjury?	14	A. I do.
15		15	
16		16	please.
l	you are providing today is as if you were testifying	17	
	in court?	1	by the court reporter and is attached hereto.)
19		19	
20		l	Exhibit 136. 09:18:19
	everything that we say, so it's important to give	21	Mr. Li, do you have Exhibit 136 in front of
	verbal answers to my questions.		you?
23	Do you understand?	23	A. I do.
24		24	Q. Okay. Do you recognize Exhibit 136?
25	Q. It's also important that we don't speak 09:16:29	25	A. This appears to be my profile for Linkedln. 09:18:25
	Page 10		Page 12
1	over each other. So I'll do my best to let you	1	Q. Can you please take a moment to look at
	finish your answers before I ask the next question	2	Exhibit 136 and let me know if the information is
	and I would ask that you let me finish my next		
	question before you begin your answer.	4	A. It is accurate. It is reasonably
5	Is that clear? 09:16:41	5	up-to-date, but it is not complete. 09:18:48
6	A. Yes.	6	Q. What is incomplete about the information on
7	Q. If there is a question that I ask that you		Exhibit 136?
	don't understand, please let me know, and I'll try	8	A. In particular, it is not a complete list of
	to clarify it, okay?		patents and publications.
10	A. Okay. 09:16:48	10	Q. Is there anything else that is incomplete 09:19:01
11	Q. Otherwise, if you answer my question, I'll		about Exhibit 136?
	assume that you understood my question.	12	A. I don't believe you know, my work
13	A. Okay.		history here only goes back to '91.
14	Q. Okay. Is there any reason, Mr. Li, that	14	Q. Anything else, Mr. Li?
	you can't give full and truthful testimony today? 09:16:57	15	A. No. 09:19:21
16	A. No.	16	Q. What is your educational background,
17	Q. Mr. Li, I know you're not represented by		Mr. Li?
	counsel today. If there is any answer that you	18	A. I have a B.S. in mathematics from
	provide today that you would like to request to		Harvey Mudd College and a Ph.D. in computer science
17	provide today that you would like to request to		from USC. 09:19:39
20	designate confidential under the protective order in 00.17.00	∠∪	110 II 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
			O When did you receive your D S in
21	this case, please state that on the record.	21	Q. When did you receive your B.S. in
21 22	this case, please state that on the record. A. Okay.	21 22	mathematics from Harvey Mudd?
21 22 23	this case, please state that on the record. A. Okay. MR. PAK: Mr. Li, I'll also add that, on	21 22 23	mathematics from Harvey Mudd? A. '82.
21 22 23 24	this case, please state that on the record. A. Okay. MR. PAK: Mr. Li, I'll also add that, on behalf of Cisco, I'll be making some objections from	21 22 23 24	mathematics from Harvey Mudd? A. '82. Q. And when did you receive your Ph.D. from
21 22 23 24	this case, please state that on the record. A. Okay. MR. PAK: Mr. Li, I'll also add that, on behalf of Cisco, I'll be making some objections from	21 22 23 24	mathematics from Harvey Mudd? A. '82.

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 20 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

1 A. 1990, 2 Q. And the USC you're referring to, that's the 3 University of Southern California, correct? 4 A. Correct. 5 Q. Do you have any other degrees besides the 09:19:58 6 backelor's degree and your Ph.D.? 7 A. No. 8 Q. Your LinkedIn profile marked as Exhibit 136 9 states that you attended Rutgers University; is that 10 correct? 9 09:20:20 11 A. I spent one year at Rutgers Did not get a 12 degree there. 13 Q. Was your focus at the University of 14 Southern California on arything in particular? 15 A. I was working on a Ph.D. in computer 09:20:31 16 science in the programming languages area. 17 Q. What programming languages were you working 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 09:20:47 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None, however, as a postdoc at USC, 1 25 actually worked on IDPR, Inter-Domain Policy 09:21:13 Page 14 1 Routing. 1 Routing. 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 09:21:41 6 Q. What is EGP? 7 A. Roe Refresher of the ministrator, so I had 5 familiarity there with EGP and IGRP. 09:21:41 6 Q. You mentioned IDPR as part of your postdoc 09:22:04 11 work; correct? 12 A. Correct. 13 Q. Can you describe for me how you worked with
3 University of Southern California; correet? 4 A. Correct. 5 Q. Do you have any other degrees besides the 09:19:58 6 bachelor's degree and your Ph.D.? 7 A. No. 8 Q. Your LinkedIn profile unarked as Exhibit 136 9 states that you attended Rutgers University; is that 10 correct? 09:20:20 11 A. I spent one year at Rutgers. Did not get a 12 degree there. 12 Q. Was your focus at the University of 14 Southern California on anything in particular? 15 A. I was working on a Ph.D. in computer 09:20:31 6 science in the programming languages area. 17 Q. What programming languages were you working 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 09:20:47 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, 1 25 actually worked on IDPR, Inter-Domain Policy Objection of GPR and protocols, if any, did you 24 LUSC; I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 09:21:41 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 09:21:41 6 Q. What is IGRP? 4 A. Exterior Gateway Protocol. 8 Q. And what is IGRP? 5 A. Interior Gateway Protocol. 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 12 A. Correct. 12 Q. And what was your experience as a sys admin
4 A. Correct. 5 Q. Do you have any other degrees besides the 09:19:58 6 backbelor's degree and your Ph.D.? 7 A. No. 8 Q. Your LinkedIn profile marked as Exhibit 136 9 states that you attended Rutgers University; is that 10 correct? 11 A. I spent one year at Rutgers. Did not get a 12 degree there. 12 degree there. 13 Q. Was your focus at the University of 14 Southern California on anything in particular? 15 A. I was working on a Ph.D. in computer 09:20:31 16 science in the programming languages area. 17 Q. What programming languages were you working 18 non. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 09:20:47 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy Page 14 1 Routing. 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 3 A. Correct Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 4 Q. How do you know that? A. Yex read the RFC. 8 Q. What is an RFC, Mr. Li? 9 A. It as a Request For Comments that is a 10 document from the Internet Engineering Task Force, 09:23:31 11 IETP, that they use for standardizing protocols. 12 I'm unaware of the exact standards placement of13 or progression of EGP at this time. It's probably 14 moved to historic by 09:24:01 16 science in the programming languages were you working 18 no. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 09:20:47 20 Q. What routing protocols, if any, did you 20 in compute of the exact standards placement of13 or progression of EGP at this time. It's probably 14 moved to historic by 09:24:01 18 tandards, and standards that are no longer actively 19 used or recommended are
5 Q. Do you have any other degrees besides the 09:19:58 6 bachelor's degree and your Ph.D.? 7 A. No. 8 Q. Your LinkedIn profile marked as Exhibit 136 9 states that you attended Rutgers University; is that 10 correct? 10 9:20:20 11 A. I spent one year at Rutgers. Did not get a 12 degree there. 13 Q. Was your focus at the University of 14 Southern California on anything in particular? 15 A. I was working on a Ph.D. in computer 09:20:31 16 science in the programming languages area. 17 Q. What programming languages area. 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 20 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and iGRP. 09:21:41 6 Q. What is EGP? A. Exterior Gateway Protocol. 8 Q. And what is IGRP? 9 A. Interior Gateway Protocol. 10 Q. You mentioned IDPR as part of your postdoc 11 work; correct? 12 Q. Hore Control of Diaming Potocol. 12 Q. You mentioned IDPR as part of your postdoc 13 A. Correct. 14 So were fire they read the RFC. 9 A. It as a Request For Comments that is a 10 document from the Internet Engineering Task Force, 09:23:11 11 IETF, that they use for standardizing protocols. 12 I'm unaware of the exact standardars placement of13 or progression of EGP at this time. It's probably 14 moved to historic by now. 15 Q. When you say it's "moved to historic by over ean town," what do you mean by that? 17 A. So the IETF has a progression for 18 standards, and standards that are no longer actively 19 used or recommended are moved to historic by onw. 15 Q. You also inentioned IGRP. Can you describe 22 Q. Inter-Domain Policy Routing? 23 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator
6 bachelor's degree and your Ph.D.? 7 A. No. 8 Q. Your LinkedIn profile marked as Exhibit 136 9 states that you attended Rutgers University; is that 10 correct? 09:20:20 11 A. I spent one year at Rutgers. Did not get a 12 degree there. 13 Q. Was your focus at the University of 14 Southern California on anything in particular? 15 A. I was working on a Ph.D. in computer 16 science in the programming languages area. 17 Q. What programming languages area. 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 21 in language theory, and in particular I was working 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. Q. What is BGP? 9 A. It as a Request For Comments that is a 10 document from the Internet Engineering Task Force, 99.23:2 11 IETF, that they use for standardizing protocols. 12 I'm unaware of the exact standards placement of - 13 or progression of EGP at this time. It's probably 14 moved to historic by now. 15 Q. When you say it's "moved to historic by 09:24:01 16 now," what do you mean by that? 17 A. So the IETF has a progression for 18 standards, and standards that are no longer actively 19 used or recommended are moved to historic to 20 indicate that they are no longer productive. 21 Q. You also mentioned IGRP. Can you describe 22 to me what IGRP is. 23 A. IGRP is Cisco's proprietary, what do you 09:24:40 Page 11 mean by that? 2 A. Cisco owns the code, has a patent on the 3 or on the concepts behind the implementation, and as 4 far as I know, has not licensed it with the 5 exception of licensing their whole source code 09:24:58 6 stack. 7 Q. How did you work with EGP while you were a 8 sys admin? 9 A. So I was responsible for maintaining EGP
7 A. No. 8 Q. Your LinkedIn profile marked as Exhibit 136 9 states that you attended Rutgers University; is that 10 correct? 11 A. I spent one year at Rutgers. Did not get a 12 degree there. 13 Q. Was your focus at the University of 14 Southern California on anything in particular? 15 A. I was working on a Ph.D. in computer 16 science in the programming languages area. 17 Q. What programming languages area. 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 20 in language theory, and in particular I was working 21 actually worked on IDPR, Inter-Domain Policy 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. Q. What is EGP? A. Exterior Gateway Protocol. Q. Vou mentioned IDPR as part of your postdoc Q. Q. You mentioned IDPR as part of your postdoc Q. Q. And what is IGRP? Q. What is an RFC, Mr. L.? 9 A. It as a Request For Comments that is a 10 document from the Internet Engineering Task Force, 09:23: 11 IETF, that they use for standardizing protocols. 12 I'm unaware of the exact standards placement of 13 or progression of EGP at this time. It's probably 14 moved to historic by now. 15 Q. When you say it's 'moved to historic by 09:24:01 16 now," what do you mean by that? 17 A. So the IETF has a progression for 18 standards, and standards that are no longer actively 19 used or recommended are moved to historic to 20 indicate that they are no longer productive. 21 Q. You also mentioned IGRP. Can you describe 22 to me what IGRP is 23 A. IGRP is Cisco's proprietary, what do you 09:24:44 Protocol. 25 Q. When you say Cisco proprietary, what do you 09:24:44 Pager 1 mean by that? 2 A. Cisco owns the code, has a patent on the 3 or on the concepts behin
7 A. No. 8 Q. Your LinkedIn profile marked as Exhibit 136 9 states that you attended Rutgers University; is that 10 correct? 11 A. I spent one year at Rutgers. Did not get a 12 degree there. 13 Q. Was your focus at the University of 14 Southern California on anything in particular? 15 A. I was working on a Ph.D. in computer 16 science in the programming languages area. 17 Q. What programming languages area. 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 20 in language theory, and in particular I was working 21 actually worked on IDPR, Inter-Domain Policy 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. Q. What is EGP? A. Exterior Gateway Protocol. Q. Vou mentioned IDPR as part of your postdoc Q. Q. You mentioned IDPR as part of your postdoc Q. Q. And what is IGRP? Q. What is an RFC, Mr. L.? 9 A. It as a Request For Comments that is a 10 document from the Internet Engineering Task Force, 09:23: 11 IETF, that they use for standardizing protocols. 12 I'm unaware of the exact standards placement of 13 or progression of EGP at this time. It's probably 14 moved to historic by now. 15 Q. When you say it's 'moved to historic by 09:24:01 16 now," what do you mean by that? 17 A. So the IETF has a progression for 18 standards, and standards that are no longer actively 19 used or recommended are moved to historic to 20 indicate that they are no longer productive. 21 Q. You also mentioned IGRP. Can you describe 22 to me what IGRP is 23 A. IGRP is Cisco's proprietary, what do you 09:24:44 Protocol. 25 Q. When you say Cisco proprietary, what do you 09:24:44 Pager 1 mean by that? 2 A. Cisco owns the code, has a patent on the 3 or on the concepts behin
9 states that you attended Rutgers University; is that 10 correct? 99:20:20 11 A. I spent one year at Rutgers. Did not get a 12 degree there. 13 Q. Was your focus at the University of 14 Southern California on anything in particular? 15 A. I was working on a Ph.D. in computer 16 science in the programming languages area. 17 Q. What programming languages were you working 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 20 Inter-Domain Policy Routing? 3 A. Correct, Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 4 A. Exterior Gateway Protocol. 5 Q. What is IGRP? 7 A. Exterior Gateway Protocol. 8 Q. And what is IGRP? 9 A. Int as a Request For Comments that is a 10 document from the Internet Engineering Task Force, 09:23:4 11 IETF, that they use for standardizing protocols. 12 I'm unaware of the exact standards placement of 13 or progression of EGP at this time. It's probably 14 moved to historic by now. 15 Q. When you say it's "moved to historic by 09:24:01 18 standards, and standards that are no longer actively 19 used or recommended are moved to historic to 20 indicate that they are no longer productive. 21 Q. You also mentioned IGRP. Can you describe 22 to me what IGRP is. 23 A. IGRP is Cisco's proprietary classful 24 protocol. 25 Q. When you say Cisco proprietary, what do you 09:24:40 Page 14 1 mean by that? 2 A. Cisco owns the code, has a patent on the 3 or on the concepts behind the implementation, and as 4 far as I know, has not licensed it with the 5 exception of licensing their whole source code 09:24:58 6 stack. 7 Q. How did you work with EGP while you were a 8 sys admin? 9 A. So I was responsible for maintaining EGP 10 connectivity between USCs s
10 correct? 11 A. I spent one year at Rutgers. Did not get a 12 degree there. 13 Q. Was your focus at the University of 14 Southern California on anything in particular? 15 A. I was working on a Ph.D. in computer 09:20:31 16 science in the programming languages area. 17 Q. What programming languages were you working 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 09:20:47 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, 1 25 actually worked on IDPR, Inter-Domain Policy 1 Routing. 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. O9:21:41 6 Q. What is BGP? 7 A. Exterior Gateway Protocol. 8 Q. And what is IGRP? 9 A. Interior Gateway Routing Protocol. 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 iETF, that they use for standards placement of 13 or progression of EGP at this time. It's probably 14 inoved to historic by now. 15 Q. When you say it's "moved to historic by 09:24:01 16 now," what do you mean by that? 17 A. So the IETF has a progression for 18 standards, and standards that are no longer productive. 20 indicate that they are no longer productive. 21 Q. You also mentioned IGRP. Can you describe 22 to me what IGRP is. 23 A. IGRP is Cisco's proprietary, what do you 09:24:40 24 protocol. 25 Q. When you say Cisco proprietary, what do you 09:24:40 26 page 14 27 moved to historic by now. 28 tandards, and standards that are no longer productive. 29 Q. You also mentioned IGRP. Can you describe 20 indicate that they are no longer productive. 20 Q. You also mentioned IGRP. Can you describe 22 to me what IGRP is. 23 A. IGRP is Cisco's proprietary, what do you 09:24:40 24 protocol. 25 Q. When you say Cisco proprietary, what do you of the productive in the
10 correct? 09:20:20 11 A. I spent one year at Rutgers. Did not get a 12 degree there. 13 Q. Was your focus at the University of 14 Southern California on anything in particular? 15 A. I was working on a Ph.D. in computer 09:20:31 16 science in the programming languages area. 17 Q. What programming languages were you working 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 09:20:47 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, 1 25 actually worked on IDPR, Inter-Domain Policy Page 14 1 Routing. 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 09:21:41 6 Q. What is EGP? 7 A. Exterior Gateway Protocol. 8 Q. And what is IGRP? 9 A. Interior Gateway Routing Protocol. 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 12 A. Correct. 11 gateways. 12 Q. And what was your experience as a sys admin
11 A. I spent one year at Rutgers. Did not get a 12 degree there. 13 Q. Was your focus at the University of 14 Southern California on anything in particular? 15 A. I was working on a Ph.D. in computer 09:20:31 16 science in the programming languages area. 17 Q. What programming languages were you working 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 09:20:47 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy Page 14 I Routing. 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 09:21:41 6 Q. What is EGP? 7 A. Exterior Gateway Protocol. 8 Q. And what is IGRP? 9 A. Interior Gateway Protocol. 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 12 I'm unaware of the exact standards placement of 13 or progression of EGP at this time. It's probably 14 unoved to historic by now. 15 Q. When you say it's "moved to historic by 09:24:01 16 now," what do you mean by that? 17 A. So the IETF has a progression for 18 standards, and standards that are no longer actively 19 used or recommended are moved to historic by 09:24:19 21 Q. You also mentioned IGRP. Can you describe 22 to me what IGRP is. 23 A. IGRP is Cisco's proprietary classful 24 protocol. 25 Q. When you say Cisco proprietary, what do you 09:24:40 Page 1 mean by that? 2 A. Cisco owns the code, has a patent on the 3 or on the concepts behind the implementation, and as 4 far as I know, has not licensed it with the 5 exception of licensing their whole source code 09:24:58 6 stack. 7 Q. How did you work with EGP while you were a 8 sys admin? 9 A. So I was responsible for maintaining EGP 10 connectivity between USC's site and the ARPANET core 09:2 11 work; correct? 12 Q. And what is IGRP.
12 I'm unaware of the exact standards placement of 13 Q. Was your focus at the University of 14 Southern California on anything in particular? 15 A. I was working on a Ph.D. in computer 09:20:31 16 science in the programming languages area. 17 Q. What programming languages were you working 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 4 USC, I was a network administrator, so I had 5 familiarity there with EGP? 7 A. Exterior Gateway Protocol. 8 Q. And what is IGRP? 9 A. Interior Gateway Routing Protocol. 10 Q. You mentioned IDPR as part of your postdoc 11 work; correct? 12 I'm unaware of the exact standards placement of 13 or progression of EGP at this time. It's probably 14 invoved to historic by now. 15 Q. When you say it's "moved to historic by 09:24:01 16 now," what do you mean by that? 17 A. So the IETF has a progression for 18 standards, and standards that are no longer actively 19 used or recommended are moved to historic to 20 indicate that they are no longer productive. 21 Q. You also inentioned IGRP. Can you describe 22 to me what IGRP is Cisco's proprietary classful 24 protocol. 25 Q. When you say Cisco proprietary, what do you 09:24:40 Page 1 mean by that? 2 A. Cisco owns the code, has a patent on the 3 or on the concepts behind the implementation, and as 4 far as I know, has not licensed it with the 5 exception of licensing their whole source code 09:24:58 6 stack. 7 Q. How did you work with EGP while you were a 8 sys admin? 9 A. So I was responsible for maintaining EGP 10 connectivity between USC's site and the ARPANET core 09:2 11 gateways.
13 O. Was your focus at the University of 14 Southern California on anything in particular? 15 A. I was working on a Ph.D. in computer 09:20:31 16 socience in the programming languages area. 17 Q. What programming languages were you working 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 09:20:47 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy Page 14 I Routing. 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 4 A. Exterior Gateway Protocol. 5 Q. What is EGP? 7 A. Exterior Gateway Protocol. 8 Q. And what is IGRP? 9 A. Interior Gateway Routing Protocol. 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 12 Q. And what was your experience as a sys admin
14 Southern California on anything in particular? 15 A. I was working on a Ph.D. in computer 09:20:31 16 science in the programming languages area. 17 Q. What programming languages were you working 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 09:20:47 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 4 Q. What is EGP? 5 A. Interior Gateway Protocol. 6 Q. What is IGRP? 9 A. Interior Gateway Routing Protocol. 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 12 Q. And what was your experience as a sys admin
15 A. I was working on a Ph.D. in computer 09:20:31 16 science in the programming languages area. 17 Q. What programming languages were you working 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 09:20:47 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. Q. What is EGP? A. Exterior Gateway Protocol. 8 Q. And what is IGRP? 9 A. Interior Gateway Protocol. 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 12 Q. And what was your experience as a sys admin
16 science in the programming languages area. 17 Q. What programming languages were you working 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 1 Routing. 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 4 Exterior Gateway Protocol. 5 Q. And what is IGRP? 9 A. Interior Gateway Routing Protocol. 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 12 Q. What to you mean by that? 17 A. So the IETF has a progression for 18 standards, and standards that are no longer actively 19 used or recommended are moved to historic to 20 indicate that they are no longer productive. 09:24:19 21 Q. You also mentioned IGRP. Can you describe 22 to me what IGRP is. 23 A. IGRP is Cisco's proprietary classful 24 protocol. 25 Q. When you say Cisco proprietary, what do you 09:24:40 Page 14 1 mean by that? 2 A. Cisco owns the code, has a patent on the 3 or on the concepts behind the implementation, and as 4 far as I know, has not licensed it with the 5 exception of licensing their whole source code 09:24:58 6 stack. 7 Q. How did you work with EGP while you were a 8 sys admin? 9 A. So I was responsible for maintaining EGP 10 connectivity between USC's site and the ARPANET core 09:2 11 gateways. 12 Q. And what was your experience as a sys admin
17 Q. What programming languages were you working 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 4 Exterior Gateway Protocol. 5 Q. And what is IGRP? 6 Q. What is IGRP? 7 A. Exterior Gateway Protocol. 8 Q. And what is IGRP? 9 A. Interior Gateway Routing Protocol. 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 12 A. Correct. 17 A. So the IETF has a progression for 18 standards, and standards that are no longer actively 19 used or recommended are moved to historic to 20 indicate that they are no longer productive. 09:24:19 21 Q. You also inentioned IGRP. Can you describe 22 to me what IGRP is. 23 A. IGRP is Cisco's proprietary classful 24 protocol. 25 Q. When you say Cisco proprietary, what do you 09:24:40 Page 14 1 mean by that? 2 A. Cisco owns the code, has a patent on the 3 or on the concepts behind the implementation, and as 4 far as I know, has not licensed it with the 5 exception of licensing their whole source code 09:24:58 6 stack. 7 Q. How did you work with EGP while you were a 8 sys admin? 9 A. So I was responsible for maintaining EGP 10 connectivity between USC's site and the ARPANET core 09:2 11 gateways. 12 Q. And what was your experience as a sys admin
18 standards, and standards that are no longer actively 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 27 Q. Inter-Domain Policy Routing? 28 Q. Inter-Domain Policy Routing? 29 Q. Inter-Domain Policy Routing? 20 Q. Inter-Domain Policy Routing? 21 Mean by that? 22 A. Cisco owns the code, has a patent on the 23 A. Correct. Also, while I was assist admin at 24 USC, I was a network administrator, so I had 25 familiarity there with EGP and IGRP. 30 Q. What is EGP? 40 A. Exterior Gateway Protocol. 41 Work; correct? 41 Work; correct? 42 A. Correct. 43 Standards, and standards that are no longer actively 49 used or recommended are moved to historic to 20 indicate that they are no longer productive. 40 USC, I was sa postdoc at USC, I 40 Poyou also inentioned IGRP. Can you describe 41 Q. You also inentioned IGRP. Can you describe 42 to me what IGRP is. 42 D. When you say Cisco proprietary classful 42 protocol. 42 protocol. 42 protocol. 42 protocol. 42 protocol. 42 protocol. 42 protocol. 42 A. Cisco owns the code, has a patent on the 43 or on the concepts behind the implementation, and as 4 far as I know, has not licensed it with the 5 exception of licensing their whole source code 09:24:58 6 stack. 7 Q. How did you work with EGP while you were a 8 sys admin? 9 A. So I was responsible for maintaining EGP 10 connectivity between USC's site and the ARPANET core 09:2 11 gateways. 12 Q. And what was your experience as a sys admin
19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 27 Q. Inter-Domain Policy Routing? 28 Q. Inter-Domain Policy Routing? 29 Q. Inter-Domain Policy Routing? 20 Q. Inter-Domain Policy Routing? 30 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 4 Q. What is EGP? 5 A. Exterior Gateway Protocol. 5 Q. You and what is IGRP? 6 Q. You mentioned IDPR as part of your postdoc 7 Q. You mentioned IGPR. Can you describe 22 to me what IGRP is. 23 A. IGRP is Cisco's proprietary classful 24 protocol. 25 Q. When you say Cisco proprietary, what do you 09:24:40 Page 26 Protocol. 27 A. Cisco owns the code, has a patent on the
20 in language theory, and in particular I was working 09:20:47 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 1 Routing. 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 4 Q. What is EGP? 5 A. Exterior Gateway Protocol. 6 Q. What is IGRP? 7 A. Exterior Gateway Protocol. 8 Q. And what is IGRP? 9 A. Interior Gateway Routing Protocol. 10 Q. You mentioned IDPR as part of your postdoc 11 work; correct? 12 A. Correct. 12 O. You also mentioned IGRP. Can you describe 22 to me what IGRP is. 22 to me what IGRP is. 23 A. IGRP is Cisco's proprietary classful 24 protocol. 25 Q. When you say Cisco proprietary, what do you 09:24:44 Page 1 mean by that? 2 A. Cisco owns the code, has a patent on the 3 or on the concepts behind the implementation, and as 4 far as I know, has not licensed it with the 5 exception of licensing their whole source code 09:24:58 6 stack. 7 Q. How did you work with EGP while you were a 8 sys admin? 9 A. So I was responsible for maintaining EGP 10 connectivity between USC's site and the ARPANET core 09:2 11 gateways. 12 Q. And what was your experience as a sys admin
21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 1 Routing. 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 4 Exterior Gateway Protocol. 5 Q. And what is IGRP? 7 A. Exterior Gateway Routing Protocol. 8 Q. And what is IGRP? 9 A. Interior Gateway Routing Protocol. 10 Q. You also inentioned IGRP. Can you describe 22 to me what IGRP is. 23 A. IGRP is Cisco's proprietary classful 24 protocol. 25 Q. When you say Cisco proprietary, what do you 09:24:46 Page 1 mean by that? 2 A. Cisco owns the code, has a patent on the 3 or on the concepts behind the implementation, and as 4 far as I know, has not licensed it with the 5 exception of licensing their whole source code 09:24:58 6 stack. 7 Q. How did you work with EGP while you were a 8 sys admin? 9 A. So I was responsible for maintaining EGP 10 connectivity between USCs site and the ARPANET core 09:2 11 work; correct? 11 gateways. 12 Q. And what was your experience as a sys admin
22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy Page 14 1 Routing. 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 4 Q. What is EGP? 5 A. Exterior Gateway Protocol. 6 Q. What is IGRP 7 A. Exterior Gateway Protocol. 8 Q. And what is IGRP? 9 A. Interior Gateway Routing Protocol. 10 Q. You mentioned IDPR as part of your postdoc 11 work; correct? 12 A. Correct. 13 A. IGRP is Cisco's proprietary classful 24 protocol. 25 Q. When you say Cisco proprietary, what do you 09:24:40 26 protocol. 27 A. Improved: 28 A. IGRP is Cisco's proprietary classful 29 A. Improved: 29 A. Iso I was a patent on the
23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 26 Page 14 1 Routing. 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 4 Q. What is EGP? 5 A. Exterior Gateway Protocol. 6 Q. What is IGRP? 7 A. Exterior Gateway Protocol. 7 Q. Interior Gateway Routing Protocol. 8 Q. And what is IGRP? 9 A. Interior Gateway Routing Protocol. 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 12 A. Correct. 12 Q. And what was your experience as a sys admin
24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 1 Routing. 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 4 Q. What is EGP? 5 A. Exterior Gateway Protocol. 6 Q. What is IGRP? 7 A. Exterior Gateway Protocol. 8 Q. And what is IGRP? 9 A. Interior Gateway Routing Protocol. 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 12 A. Correct. 13 Q. When you say Cisco proprietary, what do you 09:24:40 25 Q. When you say Cisco proprietary, what do you 09:24:40 26 Q. When you say Cisco proprietary, what do you 09:24:40 27 Q. When you say Cisco proprietary, what do you 09:24:40 28 Q. A. Cisco owns the code, has a patent on the
25 actually worked on IDPR, Inter-Domain Policy Page 14 1 Routing. 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 6 Q. What is EGP? 7 A. Exterior Gateway Protocol. 8 Q. And what is IGRP? 9 A. Interior Gateway Routing Protocol. 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 12 A. Correct. 2 Q. When you say Cisco proprietary, what do you 09:24:44 Page 14 2 D. When you say Cisco proprietary, what do you 09:24:44 Page 14 2 Q. When you say Cisco proprietary, what do you 09:24:44 Page 14 2 Q. When you say Cisco proprietary, what do you 09:24:44 Page 14 2 Q. When you say Cisco proprietary, what do you 09:24:44 Page 14 2 A. Cisco owns the code, has a patent on the 3 or on the concepts behind the implementation, and as 4 far as I know, has not licensed it with the 5 exception of licensing their whole source code 09:24:58 6 stack. 7 Q. How did you work with EGP while you were a 8 sys admin? 9 A. So I was responsible for maintaining EGP 10 connectivity between USC's site and the ARPANET core 09:2 11 gateways. 12 Q. And what was your experience as a sys admin
Page 14 Pag
2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 09:21:41 5 exception of licensing their whole source code 09:24:58 6 Q. What is EGP? 6 stack. 7 A. Exterior Gateway Protocol. 7 Q. How did you work with EGP while you were a sys admin? 9 A. Interior Gateway Routing Protocol. 9 A. So I was responsible for maintaining EGP 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 11 gateways. 12 A. Cisco owns the code, has a patent on the 3 or on the concepts behind the implementation, and as 4 far as I know, has not licensed it with the 5 exception of licensing their whole source code 09:24:58 6 stack. 7 Q. How did you work with EGP while you were a sys admin? 9 A. So I was responsible for maintaining EGP 10 connectivity between USCs site and the ARPANET core 09:2 11 gateways. 12 Q. And what was your experience as a sys admin
3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 09:21:41 5 exception of licensing their whole source code 09:24:58 6 Q. What is EGP? 6 stack. 7 A. Exterior Gateway Protocol. 7 Q. How did you work with EGP while you were a 8 sys admin? 9 A. Interior Gateway Routing Protocol. 9 A. So I was responsible for maintaining EGP 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 11 gateways. 12 A. Correct. 12 Q. And what was your experience as a sys admin
4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 09:21:41 5 exception of licensing their whole source code 09:24:58 6 Q. What is EGP? 6 stack. 7 A. Exterior Gateway Protocol. 7 Q. How did you work with EGP while you were a sys admin? 9 A. Interior Gateway Routing Protocol. 9 A. So I was responsible for maintaining EGP 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 11 gateways. 12 A. Correct. 12 Q. And what was your experience as a sys admin
5 familiarity there with EGP and IGRP. 09:21:41 5 exception of licensing their whole source code 09:24:58 6 Q. What is EGP? 6 Stack. 7 Q. How did you work with EGP while you were a 8 sys admin? 9 A. Interior Gateway Protocol. 9 A. So I was responsible for maintaining EGP 10 connectivity between USC's site and the ARPANET core 09:2 11 work; correct? 11 gateways. 12 Q. And what was your experience as a sys admin
6 Q. What is EGP? 6 stack. 7 A. Exterior Gateway Protocol. 7 Q. How did you work with EGP while you were a sys admin? 9 A. Interior Gateway Routing Protocol. 9 A. So I was responsible for maintaining EGP 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 10 connectivity between USCs site and the ARPANET core 09:2 11 work; correct? 11 work; correct? 12 A. Correct. 12 Q. And what was your experience as a sys admin
7 A. Exterior Gateway Protocol. 8 Q. And what is IGRP? 9 A. Interior Gateway Routing Protocol. 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 12 A. Correct. 7 Q. How did you work with EGP while you were a 8 sys admin? 9 A. So I was responsible for maintaining EGP 10 connectivity between USC's site and the ARPANET core 09:2 11 gateways. 12 Q. And what was your experience as a sys admin
8 Q. And what is IGRP? 9 A. Interior Gateway Routing Protocol. 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 12 A. Correct. 18 sys admin? 9 A. So I was responsible for maintaining EGP 10 connectivity between USC's site and the ARPANET core 09:2 11 gateways. 12 Q. And what was your experience as a sys admin
9 A. Interior Gateway Routing Protocol. 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 12 A. Correct. 19 A. So I was responsible for maintaining EGP 10 connectivity between USC's site and the ARPANET core 09:2 11 gateways. 12 Q. And what was your experience as a sys admin
10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 12 A. Correct. 10 connectivity between USC's site and the ARPANET core 09:2 11 gateways. 12 Q. And what was your experience as a sys admin
11 work; correct?
12 A. Correct. 12 Q. And what was your experience as a sys admin
13 Q. Can you describe for me how you worked with 13 working with IGRP?
14 IDPR in your postdoc work at USC. 14 A. So I was maintaining the Los Nettos Network
15 A. So I was working for Deborah Estrin, and 09:22:24 I5 which was a small regional network in Los Angeles. 09:25:24
16 she was collaborating with Martha Steenstrup of 16 We used IGRP for routing between the sites and our
17 Bolt, Beranek & Newman in Boston. They was a 17 small network.
18 they had some sort of research contract to develop a 18 Q. And what period of time were you a sys
19 routing protocol that supported policy routing. 19 admin for USC?
20 Q. Was IDPR a proprietary standard? 09:22:43 20 A. Approximately 1983 through 1990. 09:25:36
21 A. I have no idea. 21 Q. Besides IDPR, EGP and IGRP, did you work
22 Q. You said you worked at you worked on EGP 22 with any other routing protocols while you were
23 while as a sys admin at USC; is that correct? 23 either obtaining your Ph.D. or serving as a postdoc?
24 A. That's correct. 24 A. Probably. So I do not recall the details,
25 Q. What is EGP? 09:23:07 25 but I do know that we had also a DECnet network, and 09:26:1
Page 15 Page 15

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 21 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

CONTIDENTIAL INFORMATION	ONDER THE I ROTECTIVE ORDER
1 I believe that DECnet routing was involved, and that	I A. I do.
2 is a uses an internal routing protocol that is	2 Q. What is a command line interface?
3 very simple similar to RIP.	3 A. A command line interface is a means for a
4 Q. Now, you said DECnet. What is DECnet?	4 user to enter commands typing out names of words and
5 A. DECnet was a proprietary networking stack 09:26:36	5 then interacting with a computer by having the 09:29:50
6 from Digital Equipment Corporation.	6 computer respond to those words.
7 Q. So the DEC in DECnet stands for	7 Q. If I use the term "CLI," will you
8 Digital Equipment Corporation?	8 understand that I'm referring to a command line
9 A. Yes.	9 interface?
10 Q. When you say "we also had a DECnet 09:26:56	10 A. I understand. 09:30:06
11 network," who is "we"?	11 Q. Did the VAX/VMS operating system have a
12 A. I was referring to my employers at USC, in	12 command line interface?
13 particular engineering computer services which then	13 A. It did.
14 became university computing services.	14 Q. Can you describe for me generally how the
15 Q. What experience did you have working with 09:27:20	15 VAX/VMS command line interface worked. 09:30:17
16 the DECnet network at USC?	16 A. It was a very standard command-and-response
17 A. Mostly it was frustrating. The DECnet	17 interface. Predominant were set and show. Change
18 network was interconnecting the router the	18 parameters and then display parameters.
19 various hosts around the campus, allowing students	19 Q. When you say "very standard
20 and faculty to move data around between the various 09:27:36	20 command-and-response interface," what do you mean by 09:30:39
21 computers.	21 "very standard"?
22 Q. What was the operating system like on the	22 A. So very similar to other things in the
23 DECnet network?	23 industry.
24 A. So we had multiple systems speaking DECnet.	24 Q. At that time?
25 There were many VAXes running the VMS operating 09:27:54	
Page 18	Page 20
l system. We also had several systems running	Q. And approximately what time period are we
2 TOPS-20.	2 talking about, Mr. Li?
3 Q. You said VAX/VMS. Does that stand for	3 A. The first time I saw VMS was '81.
4 anything?	4 Q. You mentioned that set and show commands
5 A. VAX is virtual address extension. VMS is 09:28:15	5 were predominant in VAX/VMS; correct? 09:31:13
6 virtual memory system.	6 A. Mm-hmm.
7 Q. How much experience did you have working	7 Q. Were there any other commands that you
8 with the VAX/VMS operating system?	8 recall from using the VAX/VMS command line
9 A. I was a system administrator for several	9 interface?
10 years while at USC. 09:28:36	10 A. There were many other commands, and you 09:31:25
11 Q. And how many years of experience did you	11 could easily extend it by adding additional commands
12 have working with the TOPS-20 operating system?	12 to it, so
13 A. I was only a user of TOPS-20. I got my	13 Q. How would you extend it by adding
14 first TOPS-20 account in 1982. I probably used	14 additional commands to it?
15 that well, at least eight years, so 09:29:03	15 A. So the entire operating system CLI was 09:31:39
16 Q. So as a user, you used TOPS-20 for	16 built around what was called DCL, digital command
17 approximately eight years?	17 language. You so actually write command definitions
18 A. Yes.	18 and add those to the CLI.
19 Q. And approximately how many years did you	19 Q. Were you familiar with digital command
20 work as a system administer [sic] for the VAX/VMS 09:29:17	20 language at the time? 09:32:00
21 operating system?	21 A. Slightly.
22 A. I'm not certain. I believe it was	22 Q. Did the show commands in VAX/VMS follow any
23 approximately 1983 through about 1987.	23 particular syntax?
Q. Mr. Li, do you know what a command line	A. Yes. They typically were invoked by show
25 interface is? 09:29:40	25 and then usually an object name and then a set of 09:32:16
Page 19	Page 21
	((D 10 01)

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 22 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

1 parameters. The parameters were delineated by a	1 feature while you were working with TOPS-20?
2 slash and then parameter name. Sometimes there was	2 A. Yes.
3 a value attached with an equal sign and then a value	3 Q. Is the recollection you just described
4 attached to a given parameter. The set commands	4 based upon your hands-on experience with TOPS-20?
5 were pretty much the same way. 09:32:39	5 A. Yes, it is. 09:35:27
6 Q. Now, you said, "typically were invoked" was	6 Q. Now, you said TOPS-20 had a similar syntax
7 part of your answer about how show commands worked.	7 to VMS.
8 Were there any exceptions to the syntax you	8 What was similar about the TOPS-20 command
9 just described?	9 syntax to the VAX/VMA command syntax?
10 A. Well, that was very much a generalization, 09:32:58	10 A. Again, the general intent of or design 09:35:58
11 so yes.	11 of the in the language was an imperative language
12 Q. What was the command syntax like for	12 where they would design it as verb and then noun,
13 TOPS-20?	13 noun. So you would give the command as SHO and then
14 A. TOPS-20 had a command syntax that was	14 some parameters to go with it.
15 somewhat similar to VMS. The notable difference was 09:33:22	The details of the syntax were definitely 09:36:23
16 that TOPS-20 allowed for a command completion, and	16 different. TOPS-20 in particular never used a slash
17 so you could use escape and tab and question mark	17 as a parameter separator.
18 characters to interact directly with the command	18 Q. Now, you've used the word "parameter" to
19 line interpreter while you were typing a command	19 describe the syntax for both VAX/VMS and TOPS-20?
20 line. 09:33:42	20 A. Mm-hmm. 09:36:46
21 Q. What type what time period are you	21 Q. What do you mean by a parameter?
22 talking about here, Mr. Li?	22 A. It's a qualifier or other conditional
23 A. I am unaware of when TOPS-20 first came	23 information about the specific request.
24 out.	Q. Can you give me an example of what would be
25 Q. At what time period were you working with 09:33:54	25 a command parameter? 09:36:56
Page 22	Page 24
1 TOPS-20?	A. For example, if the database of files had a
2 A. Again, I got my first TOPS-20 account in	2 set of file names, you could give a directory
3 1982.	3 command which would show the files in the directory.
4 Q. Okay. So these features you just	4 Then you could also give directory followed by a
5 described, command completion, were those in TOPS-20 09:34:05	5 parameter which would explain which would specify 09:37:17
6 when you first got your account in 1982?	6 some subset of the files that you would like to see.
7 A. Yes.	7 Q. Besides VAX/VMS and TOPS-20, did you have
8 Q. What is command completion?	8 experience with any other command line interfaces?
9 A. Command completion is the ability for the	9 A. Many.
10 command line interpreter to infer from what the user 09:34:25	10 Q. Okay. What other command line interfaces 09:37:43
11 has typed as a partial command and then actually	11 do you have experience with, Mr. Li?
12 have it type out the rest of the command for the	12 A. That could take a while. CPM, VMCMS.
13 user.	13 Let's see. Concurrent CPM, MS-DOS, RSX-11M.
14 Q. Can you give me an example of how command	14 Probably many others.
15 completion would work in a TOPS-20 command line 09:34:41	15 Q. Which of those existed prior to 1985? 09:38:15
16 interface.	16 A. All of those.
17 A. Oh, dear. So not accurately.	17 Q. Did any of those exist prior to 1980?
18 Approximately, you would type a partial command. So	18 A. Yes, very definitely. Let's see. UNIX
19 for example, if you were to type "SHO," S-H-O, and	19 already existed. There was a CLI there. I believe
20 then complete it, you would get the W and then a 09:34:58	20 that CPM predates 1980. 09:38:38
21 space, so you could then enter a parameter.	21 Q. And did you work directly with all of the
22 MR. PAK: I'm going to object that this	22 command line interfaces that you just recited?
23 calls for expert testimony. Speculation.	23 A. Yes.
24 BY MR. WONG: Q. Mr. Li, did you use the	
24 DI MAX. WONG. Q. MI. LI, did you use the	Q. In what capacity did you work with those
25 command did you use the command completion 09:35:17	25 command line interfaces? 09:39:02

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 23 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

·			
1	A. That varies. I was a programmer at	1	accessible to the system administrator.
2	Digital Research working on CPM, so I was a	2	Q. When you say "privileged," what do you mean
3	developer in that role. Most of the others I was a	3	3 by that?
4	user.	4	A. The system administration and management
5	Q. When were you a programmer at 09:39:12	5	5 commands are cannot be executed by a normal user. 09:42:46
6	Digital Research?	6	Q. Were there similar separations of command
7	A. So I had two summer internships, the	7	sets in any of the other operating systems that we
8	summers of 1982 and 1981		discussed this morning?
9	Q. What was the command strike that.	9	A. Almost all have that kind of separation.
10	Actually, what was the command syntax used 09:39:34	10	Q. What describe for me the separation in 09:43:08
П	for CPM?	111	command sets that existed in TOPS-20.
12		12	A. As a user of TOPS-20, I don't recall the
- 1	was used in TOPS-20 and VMS. Again, verb, noun and	13	details of the administration commands, so I never
	qualifiers.		used them.
15	Q. What were some of the verbs that were used 09:39:52	15	
	in the command set for CPM?	ĺ	accessible to you as a user?
17		17	
18	Q. Do you recall any of the verbs that were	18	
	used in the command sets for TOPS-20?	19	·
20	A. Info, show, DIR. I've forgotten most of 09:40:07		one could use if you were a system administrator. 09:43:46
1	the others.	21	
22	Q. You mentioned MS-DOS as one of the command	1	came up with, Mr. Li?
	line interfaces that you had worked with; correct?	23	•
24	A. Mm-hmm.	1	picked that up somewhere, but that is commonly used.
25	Q. In what context did you work with MS-DOS? 09:40:30	25	
23	Page 26	23	Page 28
		\vdash	
1	A. Just as a user.	1	, , , , , , , , , , , , , , , , , , , ,
2	Q. And that was in the early 1980s?	1	people certain administrators have abilities that
3	A. At some point, yes.	3	are past normal users.
4	Q. You also mentioned UNIX as a system that	4	
1	you have experience with; correct? 09:40:54	5	the time that you were working on VAX/VMS? 09:44:30
6	A. That's correct.	6	MR. PAK: Objection. Calls for expert
7	Q. In what context did you work with the UNIX	7	testimony.
8	operating system?	8	BY MR. WONG: Q. Just to your
9	A. I had access to a UNIX system as a user	l	recollection, Mr. Li.
10	starting in 1975. 09:41:03	10	A. Yes. 09:44:40
11	Q. Do you know how long UNIX has been in	11	Q. And what facts are you basing that answer
1	existence as an operating system?	12	on?
13	A. No, I don't.	13	A. I was a system administrator for a VMS
14	Q. And how many years did you work with the	14	system.
15	UNIX operating system? 09:41:22	15	Q. Did you use the term "privileged" to 09:44:50
16	A. I've been working with it on and off since	16	describe commands that were accessible only to
17	1975.	17	system administrators at the time you were working
18	Q. Can you describe for me how the UNIX CLI	18	on VAX/VMS?
19	worked?	19	A. Probably.
20	A. UNIX CLI is, again, a command and 09:42:06	20	Q. Was it likely that you were using that 09:45:03
21	parameters structure with a verb and then nouns and	21	term?
22	qualifiers behind it.	22	A. Very likely.
23	Q. Were all commands available to a UNIX user?	23	Q. You mentioned VMCMS. What experience did
24	A. There are commands that are not available	24	you have working with VMCMS?
25	that they are they're privileged and only 09:42:33	25	A. So USC maintained, in addition to numerous 09:45:27
	Page 27		Page 29

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 24 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

1 DEC systems, also had several IBM systems. VMCMS is 2 an operating system for IBM mainframes, and USC had 3 one and I had an account on the VM system. 4 Q. And what was the command syntax like for 5 the CLI on VMCMS? 9 09-45:55 6 A. I'm sorry. I don't remember. 7 Q. You mentioned R3X-IIM? 8 A. It's 11M. 9 Q. I'll M. Sorry. 10 A. This was an operating system for PDP-11s. 09:46:06 11 Q. What are PDP-11s? 12 A. That was a computer built by 13 Digital Equipment Corporation. 14 Q. Do you recall the command syntax of the 15 command line interface used on the RSX-I1M? 9 Q. You mentioned that the LinkedIn profile 18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 I not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 1 projects throughout the router. I started off doing 2 mostly maintenance work and answering customer 3 questions. I then had several development projects. 4 My first development project was implementing 5 something called TCP header compression. 9 date from UsC was implementing 5 something called TCP header compression. 9 valet feel dy quo work on while at 8 Cisco? 9 A. I had numerous routing small projects 10 within routing extending protocols as necessary. 11 extending protocols as necessary. 12 My next big project was actually working on 13 BGP, Border Cateway Protocol. 14 BY MR. WONG: Q. You mentioned TCP header 15 expression. What does TCP mean? 16 A. That's Transmission Control Protocol. It's 17 part of the I
3 one and I had an account on the VM system. 4 Q. And what was the command syntax like for 5 the CLI on VMCMS? 6 A. I'm sorry. I don't remember. 7 Q. You mentioned RSX-IIM? 8 A. It's 11M. 9 Q. 11M. Sorry. 10 A. This was an operating system for PDP-11s. 11 Q. What are PDP-11s? 12 A. That was a computer built by 13 Digital Equipment Corporation. 14 Q. Do you recall the command syntax of the 15 command line interface used on the RSX-11M? 16 A. No, I'm sorry. I don't. 17 Q. You mentioned that the LinkedIn profile 18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 21 Q. What work history is missing from your 22 LinkedIn profile? 22 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 26 year every and the thing hashool. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So 1 - next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 3 questions. I then had several development project was intended recommend ing called TCP header compression. 09:48:41 4 My first development project was implementing 5 something called TCP header compression, what else did you work on while at 8 Cisco? 9 A. I had numerous routing extending various interfaces and 09:48:58 10 within routing extending various interfaces and 09:48:58 11 within routing extending various interfaces and 09:48:58 11 within routing extending various interfaces and 09:48:58 12 My next big project was actually work in out in the face actually produ
4 My first development project was implementing 5 something called TCP header compression. 09:48:41 6 A. I'm sorry. I don't remember. 7 Q. You mentioned RSX-IIM? 8 A. It's 11M. 9 Q. 11M. Sorry. 10 A. This was an operating system for PDP-11s. 09:46:06 11 Q. What are PDP-11s? 12 A. That was a computer built by 13 Digital Equipment Corporation. 14 Q. Do you recall the command syntax of the 15 command line interface used on the RSX-11M? 09:46:25 16 A. No, I'm sorry. I don't. 17 Q. You mentioned that the LinkedIn profile 18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 09:46:46 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 26 A. So I next fall I went to Rutgers and 09:47:20 3 Q. Sure. After you graduated from USC, what did you do after that? 4 My first development project was inplementing 5 something called TCP header compression. 09:48:41 6 Q. And after you worked on TCP header 7 compression, what else did you work on while at 8 Cisco? 9 A. I had numerous routing small projects 10 within routing extending various interfaces and 09:48:58 11 extending protocols as necessary. 12 My next big project was actually working on 13 BGP, Border Gateway Protocol. 14 BY MR. WONG: Q. You mentioned TCP header 15 expression, what else did you work on while at 8 Cisco? 15 within routing extending various interfaces and 09:48:58 11 extending protocols as necessary. 12 My next big project was actually working on 13 BGP, Border Gateway Protocol. 14 BY MR. WONG: Q. You mentioned TCP header 15 expression, what else did you work on while at 8 Cisco? 15 within routing extending various interfaces and 09:48:58 11 extending protocols as necessary. 12 My next big project was actually working on 13 BGP, Border Gateway Protocol. 14 BY MR. WONG: Q. You mentioned TCP header 15 expression. What does TCP mead. 15 expressi
4 My first development project was implementing 5 something called TCP header compression. 09:48:41 6 A. I'm sorry. I don't remember. 7 Q. You mentioned RSX-IIM? 8 A. It's 11M. 9 Q. 11M. Sorry. 10 A. This was an operating system for PDP-11s. 09:46:06 11 Q. What are PDP-11s? 12 A. That was a computer built by 13 Digital Equipment Corporation. 14 Q. Do you recall the command syntax of the 15 command line interface used on the RSX-11M? 09:46:25 16 A. No, I'm sorry. I don't. 17 Q. You mentioned that the LinkedIn profile 18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 09:46:46 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 26 A. So I next fall I went to Rutgers and 09:47:20 3 Q. Sure. After you graduated from USC, what did you do after that? 4 My first development project was inplementing 5 something called TCP header compression. 09:48:41 6 Q. And after you worked on TCP header 7 compression, what else did you work on while at 8 Cisco? 9 A. I had numerous routing small projects 10 within routing extending various interfaces and 09:48:58 11 extending protocols as necessary. 12 My next big project was actually working on 13 BGP, Border Gateway Protocol. 14 BY MR. WONG: Q. You mentioned TCP header 15 expression, what else did you work on while at 8 Cisco? 15 within routing extending various interfaces and 09:48:58 11 extending protocols as necessary. 12 My next big project was actually working on 13 BGP, Border Gateway Protocol. 14 BY MR. WONG: Q. You mentioned TCP header 15 expression, what else did you work on while at 8 Cisco? 15 within routing extending various interfaces and 09:48:58 11 extending protocols as necessary. 12 My next big project was actually working on 13 BGP, Border Gateway Protocol. 14 BY MR. WONG: Q. You mentioned TCP header 15 expression. What does TCP mead. 15 expressi
6 A. I'm sorry. I don't remember. 7 Q. You mentioned RSX-IIM? 8 A. It's I1M. 9 Q. 11M. Sorry. 10 A. This was an operating system for PDP-11s. 09:46:06 11 Q. What are PDP-11s? 12 A. That was a computer built by 13 Digital Equipment Corporation. 14 Q. Do you recall the command syntax of the 15 command line interface used on the RSX-11M? 09:46:25 16 A. No, I'm sorry. I don't. 17 Q. You mentioned that the LinkedIn profile 18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 09:46:46 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 6 Q. And after you worked on TCP header 7 compression, what else did you work on while at 8 Cisco? 9 A. I had numerous routing small projects 10 within routing extending various interfaces and 09:48:58 11 extending protocols as necessary. 12 My next big project was actually working on 13 BGP, Border Gateway Protocol. 14 BY MR. WONG: Q. You mentioned TCP header 15 expression. What does TCP mean? 09:49:22 16 A. That's Transmission Control Protocol. It's 17 part of the Internet Protocol suite. 18 Q. Is TCP an industry standard? 19 A. It is. 20 Q. Was it an industry standard at the time you 09:49:37 21 worked on it at Cisco? 22 A. It was. 23 Q. What standard-setting body produced the TCP 24 standard? 25 A. That's a difficult question. The TCP 09:49:49 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what did you
7 Q. You mentioned RSX-IIM? 8 A. It's 11M. 9 Q. 11M. Sorry. 10 A. This was an operating system for PDP-11s. 09:46:06 11 Q. What are PDP-11s? 12 A. That was a computer built by 13 Digital Equipment Corporation. 14 Q. Do you recall the command syntax of the 15 command line interface used on the RSX-11M? 09:46:25 16 A. No, I'm sorry. I don't. 17 Q. You mentioned that the LinkedIn profile 18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 09:46:46 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 7 compression, what else did you work on while at 8 Cisco? 9 A. I had numerous routing small projects 10 within routing extending various interfaces and 09:48:58 11 extending protocols as necessary. 12 My next big project was actually working on 13 BGP, Border Gateway Protocol. 14 BY MR. WONG: Q. You mentioned TCP header 15 expression. What does TCP mean? 09:49:22 16 A. That's Transmission Control Protocol. It's 17 part of the Internet Protocol suite. 18 Q. Is TCP an industry standard? 19 worked on it at Cisco? 21 worked on it at Cisco? 22 A. It was. 23 Q. What standard-setting body produced the TCP 24 standard? 25 A. That's a difficult question. The TCP 09:49:49 Page 1 tot relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 Q. What do
8 Cisco? 9 A. I had numerous routing small projects 10 within routing extending various interfaces and 09:48:58 11 Q. What are PDP-11s? 12 A. That was a computer built by 13 Digital Equipment Corporation. 14 Q. Do you recall the command syntax of the 15 command line interface used on the RSX-11M? 16 A. No, I'm sorry. I don't. 17 Q. You mentioned that the LinkedIn profile 18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 8 Cisco? 9 A. I had numerous routing small projects 10 within routing extending various interfaces and 09:48:58 11 extending protocols as necessary. 10 within routing extending various interfaces and 09:48:58 11 extending protocols as necessary. 12 My next big project was actually working on 13 BGP, Border Cateway Protocol. 14 BY MR. WONG: Q. You mentioned TCP header 15 expression. What does TCP mean? 16 A. That's Transmission Control Protocol. It's 17 part of the Internet Protocol suite. 18 Q. Is TCP an industry standard? 19 A. It is. 20 Q. Was it an industry standard at the time you 09:49:37 21 worked on it at Cisco? 22 A. It was. 23 Q. What standard-setting body produced the TCP 24 standard? 25 A. That's a difficult question. The TCP 09:49:49 Page 26 A. That's a difficult question. The TCP 09:49:49 Page 30 1 standard was really a product of I guess the 2 ARPANET project, but this actually predates IETF 3 being accepted as a standards-making bo
9 Q. 11M. Sorry. 10 A. This was an operating system for PDP-11s. 09:46:06 11 Q. What are PDP-11s? 12 A. That was a computer built by 13 Digital Equipment Corporation. 14 Q. Do you recall the command syntax of the 15 command line interface used on the RSX-11M? 09:46:25 16 A. No, I'm sorry. I don't. 17 Q. You mentioned that the LinkedIn profile 18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 09:46:46 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 9 graduated from USC, what did you do after that? 9 graduated from USC, what did you do after that? 9 graduated from USC, what did you do after that? 9 A. I had numerous routing extending various interfaces and 09:48:58 11 extending protocols as necessary. 12 within routing extending various interfaces and 09:48:58 11 extending protocols as necessary. 12 My next big project was actually working on 13 BGP, Border Gateway Protocol. 14 BYMR. WONG: Q. You mentioned TCP header 15 expression. What does TCP mean? 19 expression. What does TCP mean? 10 extending protocols. 14 Extending protocols. 15 Extending protocols. 16 A. That's Transmission Control Protocol. It's 17 part of the Internet Protocol suite. 18 Q. Is TCP an industry standard? 18 Q. Was it an industry standard at the time you 09:49:37 21 worked on it at Cisco? 22 A. It was. 23 Q. What atsnadard-setting body produced the TCP 24 standard? 25 A. That's a difficult question. The TCP 09:49:49 26 A. That's a difficult question
10 A. This was an operating system for PDP-11s. 09:46:06 11 Q. What are PDP-11s? 12 A. That was a computer built by 13 Digital Equipment Corporation. 14 Q. Do you recall the command syntax of the 15 command line interface used on the RSX-11M? 09:46:25 16 A. No, I'm sorry. I dorit. 17 Q. You mentioned that the LinkedIn profile 18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 09:46:46 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 10 within routing extending various interfaces and 09:48:58 11 extending protocols as necessary. 12 My next big project was actually working on 13 BGP, Border Gateway Protocol. 14 BY MR. WONG: Q. You mentioned TCP header 15 expression. What does TCP mean? 09:49:22 16 A. That's Transmission Control Protocol. It's 17 part of the Internet Protocol suite. 18 Q. Is TCP an industry standard? 19 A. It is. 20 Q. Was it an industry standard at the time you 09:49:37 21 worked on it at Cisco? 22 A. It was. 23 Q. What standard-setting body produced the TCP 24 standard? 25 A. That's a difficult question. The TCP 09:49:49 Page 1 standard was really a product of I guess the 2 ARPANET project, but this actually predates IETF 3 being accepted as a standard-s-making body, which is 4 a whole book in itself. Great deal of politics 5 behind that. So it was a de facto standard 09:50:16 6 effectively. 7 Q. What do you mean by "de facto standard"? 8 A. Which meant that the industry used it and 9 it was publicly a
11 Q. What are PDP-11s? 12 A. That was a computer built by 13 Digital Equipment Corporation. 14 Q. Do you recall the command syntax of the 15 command line interface used on the RSX-11M? 16 A. No, I'm sorry. I don't. 17 Q. You mentioned that the LinkedIn profile 18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59
12 A. That was a computer built by 13 Digital Equipment Corporation. 14 Q. Do you recall the command syntax of the 15 command line interface used on the RSX-11M? 09:46:25 16 A. No, I'm sorry. I don't. 17 Q. You mentioned that the LinkedIn profile 18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 09:46:46 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 I not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 12 My next big project was actually workend in BGP, Border Gateway Protocol. 14 BY MR. WONG: Q. You mentioned TCP header 15 expression. What does TCP mean? 09:49:22 16 A. That's Transmission Control Protocol . It's 17 part of the Internet Protocol suite. 18 Q. Is TCP an industry standard? 19 A. It is. 20 Q. Was it an industry standard at the time you 09:49:37 21 worked on it at Cisco? 22 A. It was. 23 Q. What standard-setting body produced the TCP 24 standard? 25 A. That's a difficult question. The TCP 09:49:49 25 A. That's a difficult question. The TCP 09:49:49 26 A. That's a difficult question. The TCP 09:49:49 27 A. That's a difficult question. The TCP 09:49:49 28 A. Which is actually predates IETF 3 being accepted as a standards-making body, which is 4 a whole book in itself. Great deal of politics 5 behind that. So it was a de facto standard 09:50:16 6 effectively. 7 Q. What do you mean by "de facto standard"? 8 A. Which meant that the industry used it and 9 it was publicly available, everyone was free to
13 Digital Equipment Corporation. 14 Q. Do you recall the command syntax of the 15 command line interface used on the RSX-11M? 16 A. No, I'm sorry. I don't. 17 Q. You mentioned that the LinkedIn profile 18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 13 BGP, Border Gateway Protocol. 14 BY MR. WONG: Q. You mentioned TCP header 15 expression. What does TCP mean? 09:49:22 16 A. That's Transmission Control Protocol It's 17 part of the Internet Protocol suite. 18 Q. Is TCP an industry standard? 18 Q. Is tis. 20 Q. Was it an industry standard at the time you 09:49:37 21 worked on it at Cisco? 22 A. It was. 23 Q. What standard-setting body produced the TCP 24 standard? 25 A. That's a difficult question. The TCP 09:49:49 Page 1 standard was really a product of I guess the 2 ARPANET project, but this actually predates IETF 3 being accepted as a standards-making body, which is 4 a whole book in itself. Great deal of politics 5 behind that. So it was a de facto standard 09:50:16 6 effectively. 7 Q. What do you mean by "de facto standard"? 8 A. Which meant that the industry used it and 9 it was publicly available, everyone was free to
14 Q. Do you recall the command syntax of the 15 command line interface used on the RSX-11M? 09:46:25 16 A. No, I'm sorry. I don't. 17 Q. You mentioned that the LinkedIn profile 18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 09:46:46 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 14 BY MR. WONG: Q. You mentioned TCP header 15 expression. What does TCP mean? 09:49:22 16 A. That's Transmission Control Protocol. It's 17 part of the Internet Protocol suite. 18 Q. Is TCP an industry standard? 19 A. It is. 20 Q. Was it an industry standard at the time you 09:49:37 21 worked on it at Cisco? 22 A. It was. 23 Q. What standard-setting body produced the TCP 24 standard? 25 A. That's a difficult question. The TCP 09:49:49 Page 1 standard was really a product of I guess the 2 ARPANET project, but this actually predates IETF 3 being accepted as a standards-making body, which is 4 a whole book in itself. Great deal of politics 5 behind that. So it was a de facto standard 09:50:16 6 effectively. 7 Q. What do you mean by "de facto standard"? 8 A. Which meant that the industry used it and 9 it was publicly available, everyone was free to
15 command line interface used on the RSX-11M? 09:46:25 16 A. No, I'm sorry. I don't. 17 Q. You mentioned that the LinkedIn profile 18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 09:46:46 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 9 graduated from USC, what did you do after that? 15 expression. What does TCP mean? 09:49:22 16 A. That's Transmission Control Protocol. It's 17 part of the Internet Protocol suite. 18 Q. Is TCP an industry standard? 10 worked on it at Cisco? 22 A. It was. 23 Q. What standard-setting body produced the TCP 24 standard? 25 A. That's a difficult question. The TCP 09:49:49 Page 1 standard was really a product of I guess the 2 ARPANET project, but this actually predates IETF 3 being accepted as a standards-making body, which is 4 a whole book in itself. Great deal of politics 5 behind that. So it was a de facto standard 09:50:16 6 effectively. 7 Q. What do you mean by "de facto standard"? 8 A. Which meant that the industry used it and 9 it was publicly available, everyone was free to
16 A. No, I'm sorry. I don't. 17 Q. You mentioned that the LinkedIn profile 18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 16 A. That's Transmission Control Protocol. It's 17 part of the Internet Protocol suite. 18 Q. Is TCP an industry standard? 18 Q. Is TCP an industry standard? 19 A. It is. 20 Q. Was it an industry standard at the time you 09:49:37 21 worked on it at Cisco? 22 A. It was. 23 Q. What standard-setting body produced the TCP 24 standard? 25 A. That's a difficult question. The TCP 09:49:49 Page 1 standard was really a product of I guess the 2 ARPANET project, but this actually predates IETF 3 being accepted as a standards-making body, which is 4 a whole book in itself. Great deal of politics 5 behind that. So it was a de facto standard 09:50:16 6 effectively. 7 Q. What do you mean by "de facto standard"? 8 A. Which meant that the industry used it and 9 it was publicly available, everyone was free to
17 Q. You mentioned that the LinkedIn profile 18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 09:46:46 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So 1 next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 17 part of the Internet Protocol suite. 18 Q. Is TCP an industry standard? 19 A. It is. 20 Q. Was it an industry standard at the time you 09:49:37 21 worked on it at Cisco? 22 A. It was. 23 Q. What standard-setting body produced the TCP 24 standard? 25 x andard? 26 x andard? 27 x and x a difficult question. The TCP 09:49:49 28 A. That's a difficult question. The TCP 09:49:49 29 A. That's a difficult question. The TCP 09:49:49 20 A. That's a difficult question. The TCP 09:49:49 21 worked on it at Cisco? 22 A. It was. 23 Q. What standard-setting body produced the TCP 24 standard? 25 x andard? 26 x andard? 27 x and x an
18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 09:46:46 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So 1 next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 18 Q. Is TCP an industry standard? 19 A. It is. 20 Q. Was it an industry standard at the time you 09:49:37 21 worked on it at Cisco? 22 A. It was. 23 Q. What standard-setting body produced the TCP 24 standard? 25 A. That's a difficult question. The TCP 09:49:49 Page 1 standard was really a product of I guess the 2 ARPANET project, but this actually predates IETF 3 being accepted as a standards-making body, which is 4 a whole book in itself. Great deal of politics 5 behind that. So it was a de facto standard 09:50:16 6 effectively. 7 Q. What do you mean by "de facto standard"? 8 A. Which meant that the industry used it and 9 it was publicly available, everyone was free to
19 work history? 20 A. Correct. 09:46:46 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 19 A. It is. 20 Q. Was it an industry standard at the time you 09:49:37 21 worked on it at Cisco? 22 A. It was. 23 Q. What standard-setting body produced the TCP 24 standard? 25 A. That's a difficult question. The TCP 09:49:49 Page 30 Page 30 Page 1 standard was really a product of I guess the 2 ARPANET project, but this actually predates IETF 3 being accepted as a standards-making body, which is 4 a whole book in itself. Great deal of politics 5 behind that. So it was a de facto standard 09:50:16 6 effectively. 7 Q. What do you mean by "de facto standard"? 8 A. Which meant that the industry used it and 9 it was publicly available, everyone was free to
20 A. Correct. 09:46:46 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 20 Q. Was it an industry standard at the time you 09:49:37 21 worked on it at Cisco? 22 A. It was. 23 Q. What standard-setting body produced the TCP 24 standard? 25 A. That's a difficult question. The TCP 09:49:49 Page 1 standard was really a product of I guess the 2 ARPANET project, but this actually predates IETF 3 being accepted as a standards-making body, which is 4 a whole book in itself. Great deal of politics 5 behind that. So it was a de facto standard 09:50:16 6 effectively. 7 Q. What do you mean by "de facto standard"? 8 A. Which meant that the industry used it and 9 it was publicly available, everyone was free to
21 Worked on it at Cisco? 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 2 worked on it at Cisco? 22 A. It was. 23 Q. What standard-setting body produced the TCP 24 standard? 25 A. That's a difficult question. The TCP 09:49:49 Page 30 1 standard was really a product of I guess the 2 ARPANET project, but this actually predates IETF 3 being accepted as a standards-making body, which is 4 a whole book in itself. Great deal of politics 5 behind that. So it was a de facto standard 09:50:16 6 effectively. 7 Q. What do you mean by "de facto standard"? 8 A. Which meant that the industry used it and 9 it was publicly available, everyone was free to
22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 22 A. It was. 23 Q. What standard-setting body produced the TCP 24 standard? 25 A. That's a difficult question. The TCP 09:49:49 Page 1 standard was really a product of I guess the 2 ARPANET project, but this actually predates IETF 3 being accepted as a standards-making body, which is 4 a whole book in itself. Great deal of politics 5 behind that. So it was a de facto standard 09:50:16 6 effectively. 7 Q. What do you mean by "de facto standard"? 8 A. Which meant that the industry used it and 9 it was publicly available, everyone was free to
23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 2 ARPANET project, but this actually predates IETF 3 being accepted as a standards-making body, which is 4 a whole book in itself. Great deal of politics 5 behind that. So it was a de facto standard 09:50:16 6 effectively. 7 Q. What do you mean by "de facto standard"? 8 A. Which meant that the industry used it and 9 it was publicly available, everyone was free to
24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 24 standard? 25 A. That's a difficult question. The TCP 09:49:49 Page 26 A. That's a difficult question. The TCP 09:49:49 Page 27 A. That's a difficult question. The TCP 09:49:49 Page 28 A. That's a difficult question. The TCP 09:49:49 Page 29 Page 20 A. That's a difficult question. The TCP 09:49:49 Page 20 A. That's a difficult question. The TCP 09:49:49 Page 21 Standard? 22 ARPANET project, but this actually predates IETF 3 being accepted as a standards-making body, which is 4 a whole book in itself. Great deal of politics 5 behind that. So it was a de facto standard 09:50:16 6 effectively. 7 Q. What do you mean by "de facto standard"? 8 A. Which meant that the industry used it and 9 it was publicly available, everyone was free to
25 were several of those. Full-time positions that are 09:46:59 Page 30 1 not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 2 A. That's a difficult question. The TCP 09:49:49 Page 2 A. That's a difficult question. The TCP 09:49:49 Page 2 A. That's a difficult question. The TCP 09:49:49 Page 4 A. That's a difficult question. The TCP 09:49:49 Page A. What's a difficult question. The TCP 09:49:49 Page 5 A. That's a difficult question. The TCP 09:49:49 Page 6 A. That's a difficult question. The TCP 09:49:49 Page 7 A. That's a difficult question. The TCP 09:49:49 Page 8 A. That's a difficult question. The TCP 09:49:49 Page 9 Constant of the TCP 09:49:49 Page A. What's a difficult question. The TCP 09:49:49 Page A. What's a difficult question. The TCP 09:49:49 Page A. What's a difficult question. The TCP 09:49:49 Page A. What's a difficult question. The TCP 09:49:49 Page A. What's a difficult question. The TCP 09:49:49 Page A. What's a difficult question. The TCP 09:49:49 Page A. What's a difficult question. The TCP 09:49:49 Page A. What's a difficult question. The TCP 09:49:49 Page A. What's a difficult question. The TCP 09:49:49 Page A. What's a difficult question. The TCP 09:49:49 Page A. What's a difficult question. The TCP 09:49:49 Page A. What's a difficult question. The TCP 09:49:49 Page A. What's a difficult question is the constant of the page of the pa
Page 30 Page 3
1 standard was really a product of I guess the 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 1 standard was really a product of I guess the 2 ARPANET project, but this actually predates IETF 3 being accepted as a standards-making body, which is 4 a whole book in itself. Great deal of politics 5 behind that. So it was a de facto standard 09:50:16 6 effectively. 7 Q. What do you mean by "de facto standard"? 8 A. Which meant that the industry used it and 9 it was publicly available, everyone was free to
2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 2 ARPANET project, but this actually predates IETF 3 being accepted as a standards-making body, which is 4 a whole book in itself. Great deal of politics 5 behind that. So it was a de facto standard 09:50:16 6 effectively. 7 Q. What do you mean by "de facto standard"? 8 A. Which meant that the industry used it and 9 it was publicly available, everyone was free to
3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 7 Q. What do you mean by "de facto standard"? 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 9 being accepted as a standards-making body, which is 4 a whole book in itself. Great deal of politics 5 behind that. So it was a de facto standard 09:50:16 6 effectively. 7 Q. What do you mean by "de facto standard"? 8 A. Which meant that the industry used it and 9 it was publicly available, everyone was free to
4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 4 a whole book in itself. Great deal of politics 5 behind that. So it was a de facto standard 09:50:16 6 effectively. 7 Q. What do you mean by "de facto standard"? 8 A. Which meant that the industry used it and 9 it was publicly available, everyone was free to
5 A. So I next fall I went to Rutgers and 09:47:20 5 behind that. So it was a de facto standard 09:50:16 6 spent a year there, hated it and immediately 6 effectively. 7 transferred to USC. 7 Q. What do you mean by "de facto standard"? 8 Q. Oh, I'm sorry. My question was after you 8 A. Which meant that the industry used it and 9 graduated from USC, what did you do after that? 9 it was publicly available, everyone was free to
6 spent a year there, hated it and immediately 7 transferred to USC. 7 Q. What do you mean by "de facto standard"? 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 9 it was publicly available, everyone was free to
7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 7 Q. What do you mean by "de facto standard"? 8 A. Which meant that the industry used it and 9 it was publicly available, everyone was free to
8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 8 A. Which meant that the industry used it and 9 it was publicly available, everyone was free to
9 graduated from USC, what did you do after that? 9 it was publicly available, everyone was free to
10 4 10 1000 0 7 1 1 1 1 0 1 1 00 1730 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10 A. After USC? So I graduated in September 09:47:38 10 adopt it, and yet it did not have the backing of a 09:50:36
11 of 1990. I worked on a postdoc at USC with 11 formal standards body such as the IEEE.
12 Deborah Estrin and then took a position at 12 MR. PAK: I'll object to this line of
13 Cisco Systems. 13 questioning as calling for expert testimony.
14 Q. Do you know when you started at 14 BY MR. WONG: Q. Now, you said that the
15 Cisco Systems? 09:47:53 15 TCP standard was really a product of ARPANET; 09:51:10
16 A. January 14th, 1991. 16 correct?
17 Q. Why did you join Cisco after graduating 17 A. Correct.
18 from USC? 18 Q. What is ARPANET?
19 A. Lack of a better job. 19 A. ARPANET was a project from the Defense
20 Q. Did you apply elsewhere besides Cisco? 09:48:02 20 Department's Advanced Research Projects Agency to 09:51:18
21 A. I did. 21 build a network for computers that was highly robust
22 Q. And describe for me the projects that you 22 and relayed data between computers efficiently.
23 worked on while you worked at Cisco starting in 23 Q. How do you know that, Mr. Li?
24 1991. 24 A. Having worked on it for many, many years
25 A. I worked on a wide, wide variety of 09:48:22 Page 31 25 and been involved with it as soon as it became 09:51:34 Page 3
0 (Pages 20 2)

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 25 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

CONTIDENTIAL IN CREMITTON	
1 available to USC and Rutgers.	1 A. IETF.
2 Q. And by "it," you mean ARPANET?	2 Q. What does HTTP stand for?
3 A. ARPANET.	3 A. Hypertext Transfer Protocol.
4 Q. You mentioned that TCP was part of an	4 Q. You mentioned RIP; correct?
5 Internet Protocol suite. Is that what you said? 09:51:47	5 A. Correct. 09:54:18
6 A. Correct,	6 Q. What does is that is that called RIP
7 Q. Were there any other protocols that were	7 by the industry?
8 part of the Internet Protocol suite?	8 A. Normally pronounced that way, yes.
9 A. Many.	9 Q. What does RIP stand for?
Q. Can you list off for me the protocols that 09:51:55	10 A. Routing Information Protocol. 09:54:27
11 you remember being part of the Internet Protocol	11 Q. Routing Information Protocol is also part
12 suite.	12 of the Internet Protocol suite you mentioned?
13 A. I'll give you a small set. HTTP; BGP; RIP,	13 A. It is.
14 R-I-P; DNS; DHCP. I could go on, but Susan's	Q. Is Routing Information Protocol an industry
15 fingers are going to fall off. 09:52:17	15 standard? 09:54:43
16 Q. You mentioned HTTP.	16 A. Yes, it is.
17 Is HTTP an industry standard?	17 Q. How long has Routing Information Protocol
18 A. It is.	18 been an industry standard?
19 Q. How do you know that?	19 A. I don't know when the RFC came out.
20 A. There is an RFC on it. I don't know what 09:52:31	
21 its exact standard status is but I believe it's at	21 manages the RIP protocol?
22 least proposed standard.	22 A. IETF.
Q. And how long has HTTP been an industry	23 Q. You mentioned DHCP?
24 standard, to your knowledge?	24 A. Correct.
25 MR. PAK: Calls for expert testimony. 09:52:49 Page 34	25 Q. What does DHCP stand for? 09:55:09 Page 36
1 THE WITNESS: Approximately 1992.	A. Dynamic Host Configuration Protocol.
2 BY MR. WONG: Q. And how do you know that,	2 Q. And is DHCP also an industry standard?
3 Mr. Li?	3 A. It is.
4 A. I first used a Web browser about that time,	4 Q. How do you know that, Mr. Li?
5 and had some involvement in developing a Web server 09:53:02	5 A. I've read the RFC. 09:55:21
6 for the Cisco router.	6 Q. What is the standard-setting body that
7 Q. You mentioned BGP?	7 manages DHCP?
8 A. Correct.	8 A. The IETF.
9 Q. What does BGP stand for?	9 Q. How long has DHCP been an industry
10 A. Border Gateway Protocol. 09:53:23	10 standard, to your knowledge? 09:55:42
11 Q. And BGP was part of the Internet Protocol	11 A. Since the early '90s.
12 suite?	12 Q. And how do you know that, Mr. Li?
13 A. Yes, it was.	13 A. He read the RFC.
14 Q. Was BGP also an industry standard?	14 Q. Back in the early '90s?
15 A. It is. 09:53:33	15 A. Yes. 09:55:51
16 Q. And how do you know that, Mr. Li?	16 Q. Why were you strike that.
17 A. I helped write the latest RFC on that.	17 Besides HTTP, BGP, RIP and DHCP, are there
18 Q. How long has BGP been an industry standard,	18 any other well-known protocols that are part of the
19 to your knowledge?	19 Internet Protocol suite?
20 A. BGP? 09:53:48	20 A. Many. 09:56:13
21 Q. BGP.	21 Q. Can you list for me a few more well-known
22 A. BGP has been an industry standard since	22 protocols from the Internet Protocol suite?
23 approximately 1993.	23 A. Well, the base protocol is IP, Internet
24 Q. And what is the standard-setting body that	24 Protocol. On top of that we have DNS, the Domain
25 established BGP as an industry standard? 09:54:02 Page 35	25 Name System. There's the File Transfer Protocol, 09:56:40 Page 37
1.00	1.00-21

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 26 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

Į	FTP; the Simple Mail Transfer Protocol, SMTP; Post	- 1	1 connection collisions.
	Office Protocol, POP; IMAP which is another mail		MR. PAK: At this point I'd like to mark
4	protocol.	- 1	3 this deposition transcript as confidential
	Q. And the protocols you just mentioned, are all of them industry standards, to your knowledge? 09:57:04	- 1	f information under the protective order. BY MR. WONG: O. And approximately what 09:59:38
6			
7	·	i	5 time period did you work on this starter project on 7 BGP?
	Internet Protocol?	8	
9		9	,
10			to BGP Version 3? 09:59:57
	DNS protocol?	11	
12	·	1	2 required a change. The version number required
13	Q. Is the IETF the standard-setting body for		changing.
	each of the protocols you just mentioned?	14	
15	A. Yes. 09:57:31		what do you mean by that? 10:00:14
16	Q. We just went through several acronyms for	16	
	different industry standard protocols; correct?	1	functions inside the router,
18	A. Yes.	18	
19	Q. Was "HTTP" a well-known term used in the		function of a router?
	networking industry at the time that you first 09:58:00	20	
	started working with it?	1	decide where they should go and then send them out
22	A. No, it was not well-known.	1	to the best interface in the network.
23	Q. When did you start working with HTTP again?	23	Q. When you say the word "interface," what do
24	A. Very early '90s. Probably '92, '93 time	24	you mean by "interface"?
25	frame. 09:58:17	25	•
	Page 38		Page 40
1	Q. Did HTTP ever become a well-known acronym	1	another router via a link of some flavor.
2	in the industry?	2	Communications channel.
3	A. Yes. It's very well-known.	3	
4	Q. It's very well-known today?	1	time that you were working on this BGP project for
5	A. Today. 09:58:27	5	Cisco? 10:01:17
6	Q. Do you approximately when HTTP became a	6	A. It was. It's also known as a gateway in
	well-known acronym, to your knowledge?	1	some circumstances.
8	MR. PAK: Objection. Calls for expert	8	Q. Were there any particular routers that your
	testimony.	1	project applied to?
10	THE WITNESS: Approximately 1995. 09:58:33	10	A. In particular it applied to the Cisco AGS 10:01:42
11	BY MR. WONG: Q. Why do you say 1995,	i .	Plus and the remainder of Cisco's product line at
	Mr. Li?	1	the time.
13	A. That's when most people started using the	13	Q. After you worked on this BGP project, what
	Web.		else did you do at Cisco?
15	Q. Let's go back to your description of 09:58:40	15	A. I've worked on many different things. The 10:02:1
	responsibilities when you were working at Cisco	l	silicon switch engine, various other routing
	4-4-1-1-1-1001		protocol maintenance tasks, the router called GSR.
17 s	starting in 1991.	ļ	O Audion to to stone M. T.
17 s 18	The last thing you mentioned was that you	18	Q. And just to be clear, Mr. Li, are we
17 s 18 19 s	The last thing you mentioned was that you started working on a BGP project; correct?	18 19	talking about the time period where you first
17 s 18 19 s 20	The last thing you mentioned was that you started working on a BGP project; correct? A. Correct. 09:59:07	18 19 20	talking about the time period where you first started working at Cisco in 1991? 10:02:37
17 s 18 19 s 20	The last thing you mentioned was that you started working on a BGP project; correct? A. Correct. 09:59:07 Q. Describe for me what that BGP project	18 19 20 21	talking about the time period where you first started working at Cisco in 1991? 10:02:37 A. That was just the '91 through '96 time
17 s 18 19 s 20 21	The last thing you mentioned was that you started working on a BGP project; correct? A. Correct. 09:59:07 Q. Describe for me what that BGP project entailed.	18 19 20 21 22	talking about the time period where you first started working at Cisco in 1991? A. That was just the '91 through '96 time frame.
17 s 18 19 s 20 21 22 e 23	The last thing you mentioned was that you started working on a BGP project; correct? A. Correct. 09:59:07 Q. Describe for me what that BGP project entailed. A. So my starter project on BGP was to upgrade	18 19 20 21 22 23	talking about the time period where you first started working at Cisco in 1991? 10:02:37 A. That was just the '91 through '96 time frame. Q. Now, you mentioned performing various other
17 s 18 19 s 20 21 22 e 23 24 i	The last thing you mentioned was that you started working on a BGP project; correct? A. Correct. 09:59:07 Q. Describe for me what that BGP project entailed.	18 19 20 21 22 23	talking about the time period where you first started working at Cisco in 1991? A. That was just the '91 through '96 time frame.

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 27 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

		-	
1	1 with during this 1991 through 1996 time period at		A. The standard the standard for IS-IS.
2	2 Cisco?	1 2	MR. PAK: Ryan, when you get a chance, can
3	A. Everything else in the IP protocol suite	3	we take a break? We've been going for about an
4	within Cisco. This includes RIP, IGRP, EIGRP, EGP,	4	4 hour.
5	OSPF, IS-IS. I also had my hands in some of the 10:03:14	5	MR. WONG: Sure. We can take a break now. 10:05:45
6	5 CLNS stack.	1	THE WITNESS: Thank you.
7	Q. What is OSPF?	7	THE VIDEOGRAPHER: Going off the record.
8	A. Open Shortest Path First routing protocol	8	The time is 10:05.
9	from the IETF.	9	(Recess taken from 10:05 a.m. to
10	THE REPORTER: Would you mind repeating 10:03:43	10	10:11 a.m.) 10:11:25
11	that. I'm sorry.	11	THE VIDEOGRAPHER: We're back on the
12	THE WITNESS: Open Shortest Path First	12	record. The time is 10:11.
13	routing protocol from the IETF.	13	BY MR. WONG: Q. Mr. Li, you used the
14	THE REPORTER: Thank you.	14	acronym BGP to refer to the Border Gateway Protocol;
15	BY MR. WONG: Q. And the RIP and the IGRP 10:03:51	15	correct? 10:11:46
16	you just mentioned, those are the same RIP and IGRP	16	A. Correct.
17	you were discussing earlier today; correct?	17	Q. Is BGP a commonly known acronym for Border
18	A. Yes.	18	Gateway Protocol?
19	Q. You mentioned IS-IS.	19	
20	What is IS-IS? 10:04:00	20	Q. Okay. Is it a strike that. 10:11:54
21	A. This is another routing protocol that comes	21	Why do you use the term "BGP" to refer to
22	from the ISO protocol stack and the OSI standards	22	the Border Gateway Protocol?
23	hody. It supports routing for both CLNP and IP.	23	A. So that's the acronym that is used within
24	Q. What is CLNP?	24	the industry.
25		25	Q. When you say that's the acronym that's used 10:12:10
_	Page 42	ļ	Page 44
1	Q. And is that protocol also an industry	1	within the industry, you're referring to the BGP
2	standard?	2	acronym; correct?
3	A. It is.	3	A. Correct.
4	Q. What is the standard-setting body that	4	Q. And when you say "the industry," what do
5	manages CLNP? 10:04:37	5	you mean by "the industry"? 10:12:21
6	A. ISO.	6	A. Computer network.
7	Q. What is ISO?	7	Q. And how long as BGP been used as an acronym
8	A. International Standards Organization.	8	within the computer networking industry, to your
9	Although that's more formally it's the official	9	knowledge?
10	name is in French, so 10:04:53	10	A. Since BGP was first introduced, which I 10:12:42
11	Q. When you were talking about IS-IS, you	11	believe was approximately 1989.
12	mentioned the OSI standards body.	12	Q. Okay. And why do you use the term "RIP" or
1	· · · · · · · · · · · · · · · · · · ·	12	R-I-P to refer to Router Information Protocol?
13	Do you remember that?	13	10 11 to refer to reader information reducer.
13	Do you remember that? A. That's correct.	14	A. That is the common acronym used for that
1		14	
14 15 16	A. That's correct.Q. What is the OSI standards body? 10:05:04A. Open systems I don't remember the full	14	A. That is the common acronym used for that
14 15 16	A. That's correct. Q. What is the OSI standards body? 10:05:04	14 15	A. That is the common acronym used for that protocol. 10:13:21
14 15 16	A. That's correct.Q. What is the OSI standards body? 10:05:04A. Open systems I don't remember the full	14 15 16	A. That is the common acronym used for that protocol. Q. In the networking industry?
14 15 16 17 18	A. That's correct. Q. What is the OSI standards body? 10:05:04 A. Open systems I don't remember the full expansion. Sorry.	14 15 16 17 18	A. That is the common acronym used for that protocol. 10:13:21 Q. In the networking industry? A. In the networking industry.
14 15 16 17 18	A. That's correct. Q. What is the OSI standards body? 10:05:04 A. Open systems I don't remember the full expansion. Sorry. Q. Okay. So who was the standard-setting body	14 15 16 17 18	A. That is the common acronym used for that protocol. 10:13:21 Q. In the networking industry? A. In the networking industry. Q. And how long has RIP been a commonly used
14 15 16 17 18 19 20	A. That's correct. Q. What is the OSI standards body? 10:05:04 A. Open systems I don't remember the full expansion. Sorry. Q. Okay. So who was the standard-setting body for 1S-IS?	14 15 16 17 18	A. That is the common acronym used for that protocol. Q. In the networking industry? A. In the networking industry. Q. And how long has RIP been a commonly used acronym in the networking industry?
14 15 16 17 18 19 20	A. That's correct. Q. What is the OSI standards body? 10:05:04 A. Open systems I don't remember the full expansion. Sorry. Q. Okay. So who was the standard-setting body for IS-IS? A. I believe that was falls under ISO which 10:05:20	14 15 16 17 18 19 20 21	A. That is the common acronym used for that protocol. Q. In the networking industry? A. In the networking industry. Q. And how long has RIP been a commonly used acronym in the networking industry? A. I don't know. 10:13:30
14 15 16 17 18 19 20 21	A. That's correct. Q. What is the OSI standards body? 10:05:04 A. Open systems I don't remember the full expansion. Sorry. Q. Okay. So who was the standard-setting body for IS-IS? A. I believe that was falls under ISO which 10:05:20 is the child of OSI.	14 15 16 17 18 19 20 21	A. That is the common acronym used for that protocol. Q. In the networking industry? A. In the networking industry. Q. And how long has RIP been a commonly used acronym in the networking industry? A. I don't know. 10:13:30 MR. PAK: Objection. Calls for expert
14 15 16 17 18 19 20 21 22	A. That's correct. Q. What is the OSI standards body? 10:05:04 A. Open systems I don't remember the full expansion. Sorry. Q. Okay. So who was the standard-setting body for IS-IS? A. I believe that was falls under ISO which 10:05:20 is the child of OSI. Q. And how do you know that, Mr. Li?	14 15 16 17 18 19 20 21 22 23	A. That is the common acronym used for that protocol. Q. In the networking industry? A. In the networking industry. Q. And how long has RIP been a commonly used acronym in the networking industry? A. I don't know. 10:13:30 MR. PAK: Objection. Calls for expert testimony.
14 15 16 17 18 19 20 21 22 23 24	A. That's correct. Q. What is the OSI standards body? 10:05:04 A. Open systems I don't remember the full expansion. Sorry. Q. Okay. So who was the standard-setting body for IS-IS? A. I believe that was falls under ISO which 10:05:20 is the child of OSI. Q. And how do you know that, Mr. Li? A. I've read the document. Q. When you say "the document," do you mean the 10:05:34	14 15 16 17 18 19 20 21 22 23 24	A. That is the common acronym used for that protocol. Q. In the networking industry? A. In the networking industry. Q. And how long has RIP been a commonly used acronym in the networking industry? A. I don't know. MR. PAK: Objection. Calls for expert testimony. BY MR. WONG: Q. Okay. But to your knowledge, it is a commonly used acronym in the networking industry today? 10:13:39
14 15 16 17 18 19 20 21 22 23 24	A. That's correct. Q. What is the OSI standards body? 10:05:04 A. Open systems I don't remember the full expansion. Sorry. Q. Okay. So who was the standard-setting body for IS-IS? A. I believe that was falls under ISO which 10:05:20 is the child of OSI. Q. And how do you know that, Mr. Li? A. I've read the document. Q. When you say "the document," do you mean	14 15 16 17 18 19 20 21 22 23 24	A. That is the common acronym used for that protocol. Q. In the networking industry? A. In the networking industry. Q. And how long has RIP been a commonly used acronym in the networking industry? A. I don't know. 10:13:30 MR. PAK: Objection. Calls for expert testimony. BY MR. WONG: Q. Okay. But to your knowledge, it is a commonly used acronym in the

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 28 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

1 A. It is.	1 working for Cisco in 1991?
2 Q. Do you know when you first started using	2 A. Approximately three.
3 the acronym RIP?	3 Q. What was your familiarity with the command
4 A. 1991 when I came to Cisco.	4 line interface on Cisco's routers before you started
5 Q. And did you come up with the acronym RIP? 10:13:48	5 working at Cisco in 1991? 10:16:30
6 A. No, I did not.	6 A. So I used Cisco's CLI for those three years
7 Q. Where did you get that acronym from?	7 between '87 and 1991.
8 A. I heard it from covvorkers first.	8 Q. What level of familiarity strike that.
9 Q. And you did not come with the acronym BGP;	9 Was OSPF a well-known acronym in the
10 correct? 10:14:07	10 networking industry? Actually, strike that. 10:17:02
11 A. Correct.	11 Is OSPF a well-known acronym in the
12 Q. Where did you first hear the acronym BGP?	12 networking industry?
13 A. From discussions on a Usenet mailing list.	13 A. Yes, it is very well-known.
14 Q. What is a Usenet mailing list?	14 Q. And when did you first hear of the acronym
15 A. Usenet was a system for exchanging 10:14:23	15 OSPF, Mr. Li? 10:17:12
16 messaging in a broadcast fashion, and there were	16 A. As part of my employment at Cisco.
17 groups within that where people would circulate	17 Q. Approximately when did you hear first
18 messages. And so there was a discussion of routing	18 hear of OSPF?
19 protocols, and I heard about it first through that.	19 A. About 1992.
20 Q. And what time period are you talking about 10:14:45	20 Q. Approximately how long has "OSPF" been a 10:17:23
21 here when you first heard the acronym BGP?	21 well-known term in the networking industry, to your
A. This would be somewhere between about 1985	22 knowledge?
23 to 1990.	23 MR. PAK: Objection. Calls for expert
Q. So that was before you started working at	24 testimony.
25 Cisco; correct? 10:15:01	THE WITNESS: I suspect at least 1989. 10:17:32
Page 46	Page 48
1 A. Correct.	1 BY MR. WONG: Q. Why do you say that,
2 Q. Is "IGRP" also a commonly used term in the	2 Mr. Li?
3 networking industry?	3 A. So there's work started on OSPF early on
4 A. It is.	4 prior to my joining Cisco and prior to my learning
5 Q. And how long, to your knowledge, has "IGRP" 10:15:17	5 about it, and I believe that was about '89. 10:17:44
The state of the s	
6 been a commonly used term in the networking	6 Q. When you say there was work started on
7 industry?	6 Q. When you say there was work started on 7 OSPF, what are you referring to by that?
7 industry? 8 MR. PAK: Objection. Calls for expert	
7 industry? 8 MR. PAK: Objection. Calls for expert 9 testimony.	7 OSPF, what are you referring to by that? 8 A. This is work in the IETF to specify the 9 protocol.
7 industry? 8 MR. PAK: Objection. Calls for expert 9 testimony. 10 THE WITNESS: I recall seeing it very early 10:15:24	7 OSPF, what are you referring to by that? 8 A. This is work in the IETF to specify the 9 protocol. 10 Q. And how did you know that there was work 10:18:02
7 industry? 8 MR. PAK: Objection. Calls for expert 9 testimony. 10 THE WITNESS: I recall seeing it very early 10:15:24 11 on. I first learned about it in 1987.	7 OSPF, what are you referring to by that? 8 A. This is work in the IETF to specify the 9 protocol. 10 Q. And how did you know that there was work 10:18:02 11 started on OSPF by the IETF around 1989?
7 industry? 8 MR. PAK: Objection. Calls for expert 9 testimony. 10 THE WITNESS: I recall seeing it very early 10:15:24 11 on. I first learned about it in 1987. 12 BY MR. WONG: Q. And you did not come up	7 OSPF, what are you referring to by that? 8 A. This is work in the IETF to specify the 9 protocol. 10 Q. And how did you know that there was work 10:18:02 11 started on OSPF by the IETF around 1989? 12 A. So there was a discussion list about it,
7 industry? 8 MR. PAK: Objection. Calls for expert 9 testimony. 10 THE WITNESS: I recall seeing it very early 10:15:24 11 on. I first learned about it in 1987. 12 BY MR. WONG: Q. And you did not come up 13 with the acronym IGRP; right?	7 OSPF, what are you referring to by that? 8 A. This is work in the IETF to specify the 9 protocol. 10 Q. And how did you know that there was work 10:18:02 11 started on OSPF by the IETF around 1989? 12 A. So there was a discussion list about it, 13 and I looked at some the history of OSPF and looked
7 industry? 8 MR. PAK: Objection. Calls for expert 9 testimony. 10 THE WITNESS: I recall seeing it very early 10:15:24 11 on. I first learned about it in 1987. 12 BY MR. WONG: Q. And you did not come up 13 with the acronym IGRP; right? 14 A. No, I did not.	7 OSPF, what are you referring to by that? 8 A. This is work in the IETF to specify the 9 protocol. 10 Q. And how did you know that there was work 10:18:02 11 started on OSPF by the IETF around 1989? 12 A. So there was a discussion list about it, 13 and I looked at some the history of OSPF and looked 14 at the RFC that subsequently came out. I knew that
7 industry? 8 MR. PAK: Objection. Calls for expert 9 testimony. 10 THE WITNESS: I recall seeing it very early 10:15:24 11 on. I first learned about it in 1987. 12 BY MR. WONG: Q. And you did not come up 13 with the acronym IGRP; right? 14 A. No, I did not. 15 Q. Do you recall how you first learned about 10:15:38	7 OSPF, what are you referring to by that? 8 A. This is work in the IETF to specify the 9 protocol. 10 Q. And how did you know that there was work 10:18:02 11 started on OSPF by the IETF around 1989? 12 A. So there was a discussion list about it, 13 and I looked at some the history of OSPF and looked 14 at the RFC that subsequently came out. I knew that 15 folks had been working on it for quite some time. 10:18:33
7 industry? 8 MR. PAK: Objection. Calls for expert 9 testimony. 10 THE WITNESS: I recall seeing it very early 10:15:24 11 on. I first learned about it in 1987. 12 BY MR. WONG: Q. And you did not come up 13 with the acronym IGRP; right? 14 A. No, I did not. 15 Q. Do you recall how you first learned about 10:15:38 16 the acronym IGRP?	7 OSPF, what are you referring to by that? 8 A. This is work in the IETF to specify the 9 protocol. 10 Q. And how did you know that there was work 10:18:02 11 started on OSPF by the IETF around 1989? 12 A. So there was a discussion list about it, 13 and I looked at some the history of OSPF and looked 14 at the RFC that subsequently came out. I knew that 15 folks had been working on it for quite some time. 10:18:33 16 Q. Who was participating in the discussion
7 industry? 8 MR. PAK: Objection. Calls for expert 9 testimony. 10 THE WITNESS: I recall seeing it very early 10:15:24 11 on. I first learned about it in 1987. 12 BY MR. WONG: Q. And you did not come up 13 with the acronym IGRP; right? 14 A. No, I did not. 15 Q. Do you recall how you first learned about 10:15:38 16 the acronym IGRP? 17 A. So I was asked to administer a Cisco router	7 OSPF, what are you referring to by that? 8 A. This is work in the IETF to specify the 9 protocol. 10 Q. And how did you know that there was work 10:18:02 11 started on OSPF by the IETF around 1989? 12 A. So there was a discussion list about it, 13 and I looked at some the history of OSPF and looked 14 at the RFC that subsequently came out. I knew that 15 folks had been working on it for quite some time. 10:18:33 16 Q. Who was participating in the discussion 17 list about OSPF at that 1989 time period?
7 industry? 8 MR. PAK: Objection. Calls for expert 9 testimony. 10 THE WITNESS: I recall seeing it very early 10:15:24 11 on. I first learned about it in 1987. 12 BY MR. WONG: Q. And you did not come up 13 with the acronym IGRP; right? 14 A. No, I did not. 15 Q. Do you recall how you first learned about 10:15:38 16 the acronym IGRP? 17 A. So I was asked to administer a Cisco router 18 in 1987 and was did Cisco training and learned	7 OSPF, what are you referring to by that? 8 A. This is work in the IETF to specify the 9 protocol. 10 Q. And how did you know that there was work 10:18:02 11 started on OSPF by the IETF around 1989? 12 A. So there was a discussion list about it, 13 and I looked at some the history of OSPF and looked 14 at the RFC that subsequently came out. I knew that 15 folks had been working on it for quite some time. 10:18:33 16 Q. Who was participating in the discussion 17 list about OSPF at that 1989 time period? 18 A. I
7 industry? 8 MR. PAK: Objection. Calls for expert 9 testimony. 10 THE WITNESS: I recall seeing it very early 10:15:24 11 on. 1 first learned about it in 1987. 12 BY MR. WONG: Q. And you did not come up 13 with the acronym IGRP; right? 14 A. No, I did not. 15 Q. Do you recall how you first learned about 10:15:38 16 the acronym IGRP? 17 A. So I was asked to administer a Cisco router 18 in 1987 and was did Cisco training and learned 19 about IGRP through that training.	7 OSPF, what are you referring to by that? 8 A. This is work in the IETF to specify the 9 protocol. 10 Q. And how did you know that there was work 10:18:02 11 started on OSPF by the IETF around 1989? 12 A. So there was a discussion list about it, 13 and I looked at some the history of OSPF and looked 14 at the RFC that subsequently came out. I knew that 15 folks had been working on it for quite some time. 10:18:33 16 Q. Who was participating in the discussion 17 list about OSPF at that 1989 time period? 18 A. I 19 MR. PAK: Objection. Calls for
7 industry? 8 MR. PAK: Objection. Calls for expert 9 testimony. 10 THE WITNESS: I recall seeing it very early 10:15:24 11 on. I first learned about it in 1987. 12 BY MR. WONG: Q. And you did not come up 13 with the acronym IGRP; right? 14 A. No, I did not. 15 Q. Do you recall how you first learned about 10:15:38 16 the acronym IGRP? 17 A. So I was asked to administer a Cisco router 18 in 1987 and was did Cisco training and learned 19 about IGRP through that training. 20 Q. And that was before you joined Cisco in 10:15:58	7 OSPF, what are you referring to by that? 8 A. This is work in the IETF to specify the 9 protocol. 10 Q. And how did you know that there was work 10:18:02 11 started on OSPF by the IETF around 1989? 12 A. So there was a discussion list about it, 13 and I looked at some the history of OSPF and looked 14 at the RFC that subsequently came out. I knew that 15 folks had been working on it for quite some time. 10:18:33 16 Q. Who was participating in the discussion 17 list about OSPF at that 1989 time period? 18 A. I 19 MR. PAK: Objection. Calls for 20 speculation.
7 industry? 8 MR. PAK: Objection. Calls for expert 9 testimony. 10 THE WITNESS: I recall seeing it very early 10:15:24 11 on. I first learned about it in 1987. 12 BY MR. WONG: Q. And you did not come up 13 with the acronym IGRP; right? 14 A. No, I did not. 15 Q. Do you recall how you first learned about 10:15:38 16 the acronym IGRP? 17 A. So I was asked to administer a Cisco router 18 in 1987 and was — did Cisco training and learned 19 about IGRP through that training. 20 Q. And that was before you joined Cisco in 10:15:58 21 1991; right?	7 OSPF, what are you referring to by that? 8 A. This is work in the IETF to specify the 9 protocol. 10 Q. And how did you know that there was work 10:18:02 11 started on OSPF by the IETF around 1989? 12 A. So there was a discussion list about it, 13 and I looked at some the history of OSPF and looked 14 at the RFC that subsequently came out. I knew that 15 folks had been working on it for quite some time. 10:18:33 16 Q. Who was participating in the discussion 17 list about OSPF at that 1989 time period? 18 A. I 19 MR. PAK: Objection. Calls for 20 speculation. I0:18:48 21 THE WITNESS: So John Moy, Milo Medin,
7 industry? 8 MR. PAK: Objection. Calls for expert 9 testimony. 10 THE WITNESS: I recall seeing it very early 10:15:24 11 on. I first learned about it in 1987. 12 BY MR. WONG: Q. And you did not come up 13 with the acronym IGRP; right? 14 A. No, I did not. 15 Q. Do you recall how you first learned about 10:15:38 16 the acronym IGRP? 17 A. So I was asked to administer a Cisco router 18 in 1987 and was did Cisco training and learned 19 about IGRP through that training. 20 Q. And that was before you joined Cisco in 10:15:58 21 1991; right? 22 A. That's correct. I was a customer before an	7 OSPF, what are you referring to by that? 8 A. This is work in the IETF to specify the 9 protocol. 10 Q. And how did you know that there was work 10:18:02 11 started on OSPF by the IETF around 1989? 12 A. So there was a discussion list about it, 13 and I looked at some the history of OSPF and looked 14 at the RFC that subsequently came out. I knew that 15 folks had been working on it for quite some time. 10:18:33 16 Q. Who was participating in the discussion 17 list about OSPF at that 1989 time period? 18 A. I 19 MR. PAK: Objection. Calls for 20 speculation. 10:18:48 21 THE WITNESS: So John Moy, Milo Medin, 22 Vince Fuller, Cathy Wittbrodt. Don't remember the
7 industry? 8 MR. PAK: Objection. Calls for expert 9 testimony. 10 THE WITNESS: I recall seeing it very early 10:15:24 11 on. 1 first learned about it in 1987. 12 BY MR. WONG: Q. And you did not come up 13 with the acronym IGRP; right? 14 A. No, I did not. 15 Q. Do you recall how you first learned about 10:15:38 16 the acronym IGRP? 17 A. So I was asked to administer a Cisco router 18 in 1987 and was did Cisco training and learned 19 about IGRP through that training. 20 Q. And that was before you joined Cisco in 10:15:58 21 1991; right? 22 A. That's correct. I was a customer before an 23 employee.	7 OSPF, what are you referring to by that? 8 A. This is work in the IETF to specify the 9 protocol. 10 Q. And how did you know that there was work 10:18:02 11 started on OSPF by the IETF around 1989? 12 A. So there was a discussion list about it, 13 and I looked at some the history of OSPF and looked 14 at the RFC that subsequently came out. I knew that 15 folks had been working on it for quite some time. 10:18:33 16 Q. Who was participating in the discussion 17 list about OSPF at that 1989 time period? 18 A. I 19 MR. PAK: Objection. Calls for 20 speculation. 10:18:48 21 THE WITNESS: So John Moy, Milo Medin, 22 Vince Fuller, Cathy Wittbrodt. Don't remember the 23 rest.
7 industry? 8 MR. PAK: Objection. Calls for expert 9 testimony. 10 THE WITNESS: I recall seeing it very early 10:15:24 11 on. 1 first learned about it in 1987. 12 BY MR. WONG: Q. And you did not come up 13 with the acronym IGRP; right? 14 A. No, I did not. 15 Q. Do you recall how you first learned about 10:15:38 16 the acronym IGRP? 17 A. So I was asked to administer a Cisco router 18 in 1987 and was did Cisco training and learned 19 about IGRP through that training. 20 Q. And that was before you joined Cisco in 10:15:58 21 1991; right? 22 A. That's correct. I was a customer before an 23 employee. 24 Q. How many years of experience did you have	7 OSPF, what are you referring to by that? 8 A. This is work in the IETF to specify the 9 protocol. 10 Q. And how did you know that there was work 10:18:02 11 started on OSPF by the IETF around 1989? 12 A. So there was a discussion list about it, 13 and I looked at some the history of OSPF and looked 14 at the RFC that subsequently came out. I knew that 15 folks had been working on it for quite some time. 10:18:33 16 Q. Who was participating in the discussion 17 list about OSPF at that 1989 time period? 18 A. I 19 MR. PAK: Objection. Calls for 20 speculation. 10:18:48 21 THE WITNESS: So John Moy, Milo Medin, 22 Vince Fuller, Cathy Wittbrodt. Don't remember the 23 rest. 24 BY MR. WONG: Q. And how do you know those
7 industry? 8 MR. PAK: Objection. Calls for expert 9 testimony. 10 THE WITNESS: I recall seeing it very early 10:15:24 11 on. 1 first learned about it in 1987. 12 BY MR. WONG: Q. And you did not come up 13 with the acronym IGRP; right? 14 A. No, I did not. 15 Q. Do you recall how you first learned about 10:15:38 16 the acronym IGRP? 17 A. So I was asked to administer a Cisco router 18 in 1987 and was did Cisco training and learned 19 about IGRP through that training. 20 Q. And that was before you joined Cisco in 10:15:58 21 1991; right? 22 A. That's correct. I was a customer before an 23 employee.	7 OSPF, what are you referring to by that? 8 A. This is work in the IETF to specify the 9 protocol. 10 Q. And how did you know that there was work 10:18:02 11 started on OSPF by the IETF around 1989? 12 A. So there was a discussion list about it, 13 and I looked at some the history of OSPF and looked 14 at the RFC that subsequently came out. I knew that 15 folks had been working on it for quite some time. 10:18:33 16 Q. Who was participating in the discussion 17 list about OSPF at that 1989 time period? 18 A. I 19 MR. PAK: Objection. Calls for 20 speculation. 10:18:48 21 THE WITNESS: So John Moy, Milo Medin, 22 Vince Fuller, Cathy Wittbrodt. Don't remember the 23 rest.

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 29 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

1	discussion of OSPF in 1989?	1 standard?	
2	A. I subsequently worked with them as part of	2 A. Not offhand.	
3	IETF and learned of their involvement with OSPF.	3 Q. Is IS-IS a well-known acronym in the	
4		4 networking industry?	
5	•	5 A. Largely, no. 10:22:41	
6	•	6 Q. How do you know the IS-IS acronym?	
7	5	7 A. I'm part of a small group who've made use	
8		8 of the protocol. 9 Q. Is IS-IS a well-known acronym amongst those	
	individuals work for?	9 Q. Is IS-IS a well-known acronym amongst those 10 who make use of the IS-IS protocol? 10:23:01	
10		11 A. Yes, it is.	
	worked for NASA. Cathy Wittbrodt was at Energy Sciences Network at as part of	12 Q. Why is it a smaller group that makes use of	
1	Lawrence Livermore Labs.	13 the IS-IS protocol?	
13		14 A. So IS-IS is part of the ISO protocol stack	
15	•	15 which ended up not having a significant market 10:23:15	5
i i	besides the ones you just mentioned participate in	16 share, and thus there's a very small user base.	
	OSPF standardization?	17 Only a very small portion of the I net IP	
18	MR. PAK: Objection. Calls for	18 networking industry ended up using IS-IS, and so the	
19	speculation. Calls for expert testimony.	19 number of people that use IS-IS for IP routing is	
20	THE WITNESS: So I'm certain that several 10:20:32	20 very, very small. 10:23:38	
21	others did. The best way to check would be to look	21 Q. How long has IS-IS been a well-known	
22	at the IETF attendance records.	22 acronym amongst those who make use of the IS-IS	
23	BY MR. WONG: Q. When you say you're	23 protocol, to your knowledge?	
24	certain that several others did, why are you so	24 A. At least 1991.	
25	certain? 10:20:43	25 Q. And when did when did you first hear of 10:23:50	
	Page 50	Pa	ge 52
1	A. The IETF typically has dozens of people	1 the IS-IS acronym?	
2	operating, working together on any given protocol.	2 A. 1991 when I joined Cisco.	
3	Q. And how do you how do you know that,	3 Q. Is "IP" a well-known industry term in the	
4	Mr. Li?	4 networking industry?	
5	A. So that's I started participating in the 10:20:57	5 A. Very well. 10:24:07	
6	IETF in 1991, and that's their standard way of	6 Q. In your view, what other acronyms are as	
7	working.	7 well-known as IP in the networking industry?	
8	Q. How many years have you been participating	8 MR. PAK: Objection. Calls for expert	
İ	in the IETF since 1991?	9 testimony.	.10
10	A. I participated quite consistently up and 10:21:15	10 THE WITNESS: TCP, TCP/IP, WWW. 10:24:	.19
1	through about from 1991 to about 1999, and then	BY MR. WONG: Q. How long has IP been a	
1	it's been sporadic since then. Q. When you say the IETF typically has dozens	12 well-known acronym in the networking industry? 13 A. At least since 1983.	
13	of people working together on any given protocol,	14 Q. And when did you first learn of the acronym	
	are those people from the same company or different 10:21:42	15 IP? 10:24:44	
1	companies?	16 A. Approximately 1984 I took a class in	
17	MR. PAK: Objection. Calls for	17 computer networking and read the first read the	
1	speculation. Vague.	18 RFCs on IP.	
19	THE WITNESS: Typically the group	19 Q. Is BGP a let me start that again.	
	working groups that are working on a protocol draw 10:21:54	20 Is "BGP" a well-known term in the 10:25:25	
ŀ	people from all sorts of different companies and	21 networking industry?	
	organizations.	22 A. It is.	
23	BY MR. WONG: Q. Can you think of any	23 Q. How long has "BGP" been a well-known term	
1			
24	protocols from the IETF where different	24 in the networking industry?	
1	protocols from the IETF where different organizations did not participate in creating the 10:22:12 Page 51	25 MR. PAK: Objection. Calls for expert 10:25:34	ge 53

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 30 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

CONTIDENTIAL INFORMATION	
1 testimony.	I What did that entail, maintaining DHCP
THE WITNESS: Probably since about 1993.	2 relay functionality in Cisco IOS?
3 BY MR. WONG: Q. And why do you say that	3 A. Means that I had to look at the source
4 "BGP" has been a well-known term in the networking	4 code, read the DHCP RFC, test the behavior of the
5 industry since 1993? 10:25:47	5 Cisco DHCP relay and then repair the functionality 10:28:49
6 A. I'm an expert in BGP.	6 in the source code as necessary.
7 Q. Why do you say that you are an expert in	7 Q. At some point, Mr. Li, you left Cisco's
8 BGP?	8 employment; correct?
9 A. I helped deploy BGP throughout the	9 A. Several times.
10 Internet. 10:26:00	10 Q. When you started at Cisco in 1991, when did 10:29:12
11 Q. What did you do to help deploy BGP	11 you leave?
12 throughout the Internet?	12 A. 1 believe it was 1996.
13 A. So I was responsible for maintaining and	13 Q. What did you do after you left Cisco in
14 enhancing BGP. I was responsible for doing a great	14 1996?
15 deal of bug fixing to BGP. And as part of that, I 10:26:17	
16 ended up reimplementing much of Cisco's BGP code and	16 Q. And what was Juniper's business at the
17 replacing the vast majority of the code that they	17 time?
18 had.	18 A. Juniper was a startup in the computer
19 Q. And when did you first hear of the acronym	19 networking space.
20 BGP? 10:26:43	20 Q. What was Juniper's main product at the 10:29:41
21 A. Again, I believe it was in the late '80s as	21 time?
22 part of the Usenet group.	22 A. They had no product initially, and their
23 Q. Is "DNS" a well-known term in the	23 first product was a router, the M40, and I believe
24 networking industry?	24 that came out in 1998.
25 A. It is. 10:27:07	25 Q. Did you work on the M40 Juniper router? 10:29:59
Page 54	Page 56
l Q. How long has "DNS" been a well-known term	1 A. I did.
2 in the networking industry, Mr. Li?	2 Q. Now, you said Juniper had no product
3 A. At least since late '80s.	3 initially.
4 Q. When did you first learn of the term "DNS"?	4 Did they have no product when you joined
5 A. I was a sys admin at USC at the time. 10:27:19	5 them in 1996? 10:30:16
6 Could have been anywhere from '83 on.	6 A. That's correct. We were a startup. We
7 Q. How do you know that "DNS" has been a	7 had 1 was Employee No. 5. We had an office, and
8 well-known term in the networking industry since the	8 that was it.
9 late 1980s?	9 Q. Who were Juniper's competitors?
10 A. So I would helped convert USC from using 10:27:40	10 A. At the time it was Cisco. I believe Pluris 10:30:30
11 host.text, which was previous system, to using DNS.	11 came along shortly thereafter, but I don't know
12 Q. Is "DHCP" a well-known term in the	12 exactly when. There was another company called
13 networking industry?	13 NetStar. Wellfleet. Proteon had not quite gone
14 A. It is.	14 under.
15 Q. How long has "DHCP" been a well-known term 10:28:00	15 That's all I can remember. 10:31:03
16 in the networking industry?	16 Q. Now, you said you were Employee No. 5;
17 A. I don't know.	17 correct?
18 Q. When did you first hear of the acronym	18 A. Correct.
19 DHCP?	19 Q. Where did the other first employees at
20 A. Probably 1991. 10:28:08	• •
	20 Juniper come from? 10:31:15
-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
21 Q. Why do you think you first heard of DHCP in	21 A. So the founder Pradeep Sindhu was coming
21 Q. Why do you think you first heard of DHCP in 22 1991?	A. So the founder Pradeep Sindhu was coming 22 out of Xerox PARC and Sun. Bjorn Liencres I believe
21 Q. Why do you think you first heard of DHCP in	A. So the founder Pradeep Sindhu was coming cout of Xerox PARC and Sun. Bjorn Liencres I believe was Sun. Dennis Ferguson, I knew him through IETF,
 Q. Why do you think you first heard of DHCP in 1991? A. I helped maintain DHCP relay functionality 	A. So the founder Pradeep Sindhu was coming 22 out of Xerox PARC and Sun. Bjorn Liencres I believe
 Q. Why do you think you first heard of DHCP in 1991? A. I helped maintain DHCP relay functionality in Cisco IOS. 	A. So the founder Pradeep Sindhu was coming out of Xerox PARC and Sun. Bjorn Liencres I believe was Sun. Dennis Ferguson, I knew him through IETF, and he was at running CAnet, although I don't

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 31 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

1 Q. What was your involvement in strike	1 acronym was designated by the IETF.
2 that.	2 Q. What do you mean, "this acronym was
3 What is Exhibit 139?	3 designated by the IETF"?
4 A. It appears to be a copy of RFC 1887.	4 A. So the IETF, in selecting this protocol to
5 Q. What was your involvement in RFC 1887, 11:46:30	5 migrate to, decided that we should all refer to 11:49:10
6 Mr. Li?	6 version 6 of the protocol as IPv6.
7 A. So Yakov and I coauthored or coedited this	7 Q. And how do you know that the IETF decided
8 document in an attempt to document a routing	8 that we all should refer to version 6 of the IP
9 protocol architecture a routing architecture for	9 protocol as IPv6?
10 IPv6. 11:46:45	10 A. I was there as part of the discussion. 11:49:27
11 Q. What is IPv6?	11 Q. What vendors were part of that discussion?
12 A. That is the next version of the Internet	12 A. I'm sorry. I don't recall.
13 Protocol. What a widely deployed right now today is	13 Q. Were there more than one vendor part of
14 known as IPv4. It has the problem that it does not	14 that discussion?
15 have enough address space and can only support about 11:46:59	15 A. Yes, many. 11:49:40
16 4 billion hosts.	16 Q. Do you recall if Cisco was part of that
17 IPv6 is a the next version that has been	17 discussion?
18 approved by the IETF and we're currently	18 A. I believe so.
19 transitioning to IPv6, slowly.	19 Q. Do you recall if Juniper was part of that
20 Q. We're currently transitioning today, you 11:47:17	20 discussion? 11:49:48
21 mean?	21 A. I believe so.
22 A. Yes. Twenty years and counting.	22 Q. Were there any other acronyms relating to
23 Q. And I'm sorry. What was the date on the	23 routing protocols that the IETF decided should be
24 document marked as Exhibit 138, Mr. Li?	24 used to refer to those protocols?
25 A. That appears to be March 1995. 11:47:33	25 A. Yes, many. 11:50:05
Page 106	Page 108
1 Q. Was this document strike that.	1 Q. What protocols did the IETF decide that
When was the first version of the document	2 everyone in the network industry should use in
3 marked as 138 completed, to your knowledge?	3 addition to IPv6?
4 A. I would have to check my notes to be	4 MR. PAK: Objection. Calls for expert
5 precise but somewhere approximately 1994. 11:48:04	5 testimony. 11:50:18
6 Q. Turning back to Exhibit 139, Mr. Li, what	6 THE WITNESS: So OSPF, BGP, RSVP, LDP,
7 is the date on this document?	7 HTTP.
8 A. December 1995.	8 BY MR. WONG: Q. Was "IS-IS" a a
9 Q. Is that the publication date for this RFC?	9 term strike that.
10 A. Yes, it is. 11:48:19	Did the IETF have any role in the decision 11:50:50
11 Q. And was the document that is shown	11 for IS-IS to be used by the networking industry?
12 Exhibit 139, was that completed before the	12 A. Somewhat. Again, IS-IS was originally
13 publication date shown on Exhibit 139?	13 standardized outside of the IETF. The IETF had the
14 A. Yes, it was.	14 responsibility of managing the usage of IS-IS for
15 Q. Do you know approximately when? 11:48:34	15 Internet Protocol routing. 11:51:14
16 A. Somewhere between '93 and '94.	16 Q. And to your knowledge, Mr. Li, based on
17 Q. Did you come up with the term "IPv6,"	17 your experience working in the industry, did various
18 Mr. Li?	18 vendors use those acronyms that you just listed out
19 A. No, I did not.	19 for me?
20 Q. Do you know who? 11:48:42	20 A. Yes, frequently. 11:51:38
21 A. No. Can't be specific.	Q. To what extent was there any belief that
22 Q. Is IPv6 a well-known acronym in the	22 these acronyms for routing protocols were
23 networking industry?	23 proprietary to any single vendor?
24 A. Yes, it is a well-known acronym for	24 MR. PAK: Objection. Calls for
25 Internet Protocol version 6, and this this 11:48:53	25 speculation. 11:51:58
Page 107	
rage 107	Page 109

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 32 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

ļ		T .	
1	THE WITNESS: So the acronyms were never	1	by the court reporter and is attached hereto.)
2	proprietary.	2	BY MR. WONG: Q. The court reporter has
3	BY MR. WONG: Q. And on what facts do you	3	marked as Exhibit 140 a document bearing Control
4	base that opinion, Mr. Li?	4	Nos. ARISTANDCA00025927 to -25933.
5	A. So the acronyms were never published with a 11:52:06	5	Mr. Li, have you seen this document before? 11:55:28
6	trademark or copyright notice attached to them.	6	A. I believe so.
7	Q. Did you ever believe personally that the	7	Q. What is the document marked as Exhibit 140?
8	use of OSPF, BGP, IP or any of the other acronyms	8	A. It appears to be a copy of RFC 1966, BGP
9	that we've been discussing today were proprietary to	9	Route Reflection.
10	any vendor? 11:52:32	10	Q. Did you what was your involvement, if 11:55:45
11	A. No.	11	any, in the creation of the document marked as
12	Q. In your experience at multiple companies in	12	Exhibit 140?
13	the networking industry, did anybody else that you	13	A. So I helped discuss many of the concepts in
14	worked with express the belief to you that any of	14	this document. As part of the development and
15	these acronyms were proprietary to any vendor? 11:52:48	15	deployment of BGP, we found that we had numerous 11:56:02
16	A. No.	16	scalability issues that we needed to overcome.
17	Q. So in the 25 years that you have been	17	There were several approaches proposed. I helped
18	working in the networking industry, you have not	18	work on the Route Reflection proposal.
19		19	Some of the original work was proposed by
20	acronyms were proprietary to a single vendor? 11:53:08	20	Dimitry Haskin of Bay Networks. And as part of the 11:56:20
21	A. That's correct.	1	IDR working group, we jointly discussed and came up
22	Q. Turning back to Exhibit 139, Mr. Li, first	22	with this proposal.
23	page further down, second paragraph from the bottom,	23	Mr. Bates and Mr. Chandra eventually wrote
	the word "domain" is used.	24	up the actual document as you see it here.
25	Do you see that? 11:53:23	25	-
	Page 110		Page 112
1	A. Yes.	1	A. BGP Route Reflection is a mechanism for
2	Q. Did you come up with the word "domain"?		taking routing information and reflecting it from
3	A. No, I did not.		one router to another through a third router. This
4	Q. Do you know who did?	1	allows for better scalability because it fixes the
5	A. I believe that was Dr. Rechter. 11:53:31		problem where BGP previously had where all BGP 11:57:03
6	Q. Do you know when Dr. Rechter came up with	ł	routers within a particular AS had to be directly
	the name "domain"?	1	interconnected. That led to some significant
8	A. I believe that he came up with that term	i	computational and configuration management
	during the work for IDRP, and that flowed and it	ì	challenges.
	is semantically equivalent to Autonomous System, and 11:53:49	10	Q. Who came up with the phrase "Route 11:57:17
	it flowed from his work in IDRP into both this		Reflection"?
	document and the BGP specification.	12	A. I believe, but I'm not certain, that that
13	Q. And how do you how do you know that,		would be Mr. Haskin.
	Mr. Li?	14	Q. And Mr. Haskin, to your recollection,
15	A. Direct work with both of those 11:53:58		worked for Bay Networks? 11:57:33
	specifications.	16	A. It may have been Wellfleet at the time.
17	Q. Okay. By the time of this RFC,	17	Q. And just by implication from your answer,
	December 1995, was "domain" a well-known industry		was Wellfleet acquired by Bay Networks?
	term?	19	A. Bay and I'nn sorry.
20	MR. PAK: Objection. Vague, 11:54:10	20	Yes, Bay Bay was the merger of Synoptix 11:57:52
21	THE WITNESS: No, it was not well-known and		and Wellfleet, and I believe he was on the Wellfleet
	still is not very well-known.		side.
23	MR. WONG: Let's mark this one as 140,	23	Q. And why do you think that Mr. Haskin came
	please.		up with the phrase "Route Reflection"?
25	(Exhibit 140 was marked for identification 11:54:45	25	A. So I believe he was the first one at IDR 11:58:11
	Page 111		Page 113
			20 (Pages 110 - 113)

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 33 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 33 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

I standards organization like IETF2 2 A. I have never seen anyone du that. I have 3 A. I have never seen anyone du that. I have 4 standardsand. 4 standardsand. 5 O. Mr. Li is there any other views or 6 optimions that you have with respect to this case 7 that you have not abrard with us on the record that 8 you would like to share with us now? 9 MR. WONG: Objection. Vague. 10 THE WTINESS: I don't understand your 11 question. 12 BY MR. PAK. Q. We talked about a lot of the property in the pr			- · ·	DER THE FROTECTIVE ORDER
3 Going off the record. The time is 4:17. 04:17:29 4 understand. 5 Q. Mr. Li, is there any other views or 04:15:36 6 opinions that you have with respect to this case 7 that you have not shared with us now? 9 MR. WONG: Objection. Vague. 9 10 THE WITNESS: It don't understand your 04:15:55 11 question. 12 12 BY MR. PAK: Q. We talked about a lot of 12 13 individent opinion: Impring you the opportunity to 13 14 provide any further testimony that you would like on 14 15 rooperty people dink there is in some CLI syntax. 17 16 MR. WONG: Objection. Value of 15 17 property people dink there is in some CLI syntax. 18 18 significance gots covered in patents. If we thought 20 20 it was worth protecting, we would copyright it. We 04:16:32 21 would patent it. 22 22 Waw MR. PAK: Q. Do you believe that 25 copyright is a form of intellectual property? - United States of Copyright is a form of intellectual property is - United States of Copyright is a form of intellectual property is - United States of Copyright is a form of intellectual property? - United States of Copyright is a form of intellectual property? - United States of Copyright is a form of intellectual property? - United States of Copyright is a form of intellectual property? - United States of Copyright is a form of intellectual property? - United States of Copyright is a form of intellectual property? - United States of Copyright is a form of intellectual property? - United States of Copyright is a form of intellectual property? - United States of Copyright is a form of intellectual property? - United States of Copyright is a form of intellectual property? - United States of Copyright is a form of intellectual property? - United States of Copyright is a form of intellectual property? - United States of Copyright is a form of intellectual property? - United States of Copyright is a form of intellectual property? - United States of Copyright is a form of intellectual property? - United States of Copyright is a form of intellectual property? - United States of Copyrig	1 standards organization li	ke IETF?	1	THE VIDEOGRAPHER: Okay. This marks the
4 understand. 5 Q. Mr. Li, is there any other views or 04:15:36 6 opinions that you have with respect to this case 7 that you have not shared with us on the record that 8 you would like to share with us nov? 9 MR. WONG: Objection. Vague. 10 THE WITNESS: I don't understand your 04:15:55 11 question. 12 BY MR. PAK: Q. We talked about a lot of 1 13 my of these topics if you'd like at. 04:16:05 14 provide any further testimony that you would like on 1 15 my of these topics if you'd like at. 04:16:05 15 my of these topics if you'd like at. 04:16:05 16 A. So I don't understand what intellectual 1 17 property people think there is in some CLI syntax. 1 18 The intellectual property is – that's of 9 significance gets covered in patents. If we thought 20 it was worth protecting, we would copyright it. We 04:16:22 20 usual patent it. 22 21 usual patent it. 22 22 usual patent it. 22 22 usual patent it. 22 22 4 MR. WONG: Object to the form of the 22 5 copyright is a form of intellectual property? 04:16:34 Page 254 1 MR WONG: Objection. Calls for opinion 2 testimony. 4 I don't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 6 of copyright law? 6 of copyright law? 6 of copyright law? 6 of copyright law? 7 MR. WONG: Same objection. 8 THE WITNESS: It calls for legal testimony. 4 I don't understand. 6 of copyright law? 6 of copyright law? 6 of copyright law? 7 MR. WONG: Same objection. 8 THE WITNESS: (sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 1 11 12 A. I know that it m supposed to put it a copyright 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 A. I have never seen	anyone do that. I have	2	2 end of DVD No. 4 in the deposition of Anthony Li.
5 Q. Mr. Li, is there any other views or 04:15:36 6 optitions that you have with respect to this case 7 but you have not shared with us now? 8 you would like to a thare with us now? 9 10 THE WITNESS: I don't understand your 04:15:55 11 question. 12 BY MR. PAK: Q. We talked about a lot of 13 different topics. I'm giving you the opportunity to 14 provide any further testimenty that you would like on 14 provide any further testimenty that you would like on 14 provide any further testimenty that you would like on 14 provide any further testimenty that you would like on 14 provide any further testimenty that you would like on 14 provide any further testimenty that you would like on 14 provide any further testimenty that you would like on 14 provide any further testimenty that you would fixe on 14 provide any further testimenty that you would record in selecting property is - that's of 15 property people think there is in some CLI syntax. 18 property people think there is in some CLI syntax. 18 property people think there is in some CLI syntax. 18 property people think there is in some CLI syntax. 18 property people think there is in some CLI syntax. 18 property people think there is in some CLI syntax. 18 property people think there is in some CLI syntax. 18 property people think there is in some CLI syntax. 19 property people think there is in some CLI syntax. 19 property people think there is in some CLI syntax. 19 property people think there is in some CLI syntax. 19 property people think there is in some CLI syntax. 19 property people think there is in some CLI syntax. 19 property people think there is in some CLI syntax. 19 property people think there is in some CLI syntax. 19 property people think there is in some CLI syntax. 19 property people think there is in some CLI syntax. 19 property people think there is in some CLI syntax. 19 property people think there is in some CLI syntax. 19 property people think there is in some CLI syntax. 19 property people think there is in some CLI syntax. 19 property people	3 never seen Cisco have ar	ny UI patents; so I don't	3	Going off the record. The time is 4:17. 04:17:29
6 opinions that you have with respect to this case 7 Totry on have not shared with us on the record that 8 you would like to share with us nove? 9 MR. WONG: Objection. Vague. 10 THE WITNESS: I clorit understand your 11 question. 12 BY MR. PAK: Q. We talked about a lot of 13 different topics. I'm giving you the opportunity to 14 provide are further testimony that you would like on 15 any of these topics if you'd like it. 15 any of these topics if you'd like it. 16 A. So I don't understand what intellectual 16 property people think there is in some CLI syntax. 17 Is The intellectual property is that's of 18 significance gets covered in patents. If we thought 20 it was worth protecting, we would copyright it. We 04:16:22 21 would patent it 22 MR. WONG: Object to the form of the 22 question. 24 BY MR. PAK: Q. Do you believe that 25 copyright is a form of intellectual property? 26 testimony. 3 THE WITNESS: It calls for legal testimony. 4 I don't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 6 of copyright law? 7 MR. WONG: Shame objection. 8 THE WITNESS: What is your understanding 04:16:44 6 of copyright and your power of the standard of the property of the proper	4 understand.		4	(TIME NOTED: 4:17 p.m.)
7	5 Q. Mr. Li, is there an	y other views or 04:15:36	5	000
8 9 WR. WONG: Objection. Vague. 9 9 1 1 1 1 1 1 1 1	6 opinions that you have w	rith respect to this case	6	Ó
9 MR. WONG: Objection. Vague. 9 10 THE WITNESS: I don't understand your 04:15:55 10 11 question. 12 13 different topics. I'm giving you the opportunity to 13 14 14 15 15 15 16 A. S. of a don't understand what intellectual 16 17 17 17 18 18 19 19 19 19 19 19	7 that you have not shared	with us on the record that	7	7
10	8 you would like to share v	vith us now?	8	3
11 question. 12 BY MR. PAK: Q. We talked about a lot of 12 13 14 Provide any further testimony that you would like on 14 15 any of these topics if you'd like it. 04:16:05 15 16 A. So I don't understand what intellectual 16 17 Property people think there is in some CLI syntax. 17 18 The intellectual property is than's of 18 19 significance gets covered in patents. If we hought 19 20 it was worth protecting, we would copyright it. We 04:16:22 21 would patent it. 21 22 MR. WONG: Object to the form of the 22 23 question. 23 24 25 Copyright is a form of intellectual property? 04:16:34 Page 254 Page 254 Page 254 1 MR. WONG: Objection. Calls for opinion 2 testimony. 3 THE WITNESS: It calls for legal testimony. 4 Idon't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 5 Got Copyright law? 7 MR. WONG: Same objection. 8 THE WITNESS: Vague as best. 8 2016, at and correct. 7 Executed this day of 4 about all I know. 14 about all I know. 14 4 about all I know. 14 13 antice in the top of every source code file. That's 13 antice in the top of every source code file. That's 16 A. I cam't even tell you for certain what I'm 17 supposed to put an except your deal. 17 18 20 21 22 23 24 24 24 24 24 24	9 MR. WONG: Obje	ection. Vague.	9	
12 BY MR. PAK: Q. We talked about a lot of 13 different topics. Pragiving you the opportunity to 14 provide any further testimony that you would like on 15 any of these topics if you'd like it. 04:16:05 15 15 16 A. So I don't understand what intellectual 16 17 property people think there is in some CLI syntax. 17 18 The intellectual property is tharts of 18 19 significance gets covered in patents. If we thought 19 20 it was worth protecting, we would copyright it. We 04:16:22 21 would patent it. 22 MR. WONG: Object to the form of the 23 question. 23 4 BY MR. PAK: Q. Do you believe that 25 copyright is a form of intellectual property? 04:16:34 Page 254 1 I. M. WONG: Objection. Calls for opinion 2 testimony. 3 THE WITNESS: It calls for legal testimony. 4 I don't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 6 of copyright law? 7 MR. WONG: Same objection. 8 THE WITNESS: Vague as best. 9 BY MR. PAK: Q. Itale it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 11 I. A. Laws that I'm supposed to put a copyright 12 13 notice in the top of every source code file. Thar's 14 about all I know. 14 I'm supposed to put a copyright 15 Q. Okay. 04:17:08 15 A. Laws that I'm supposed to put a copyright 17 18 proposed to put in the top of the file because 17 18 noblody can tell me exactly how I should deal with 19 multiple years. 19 MR. PAK: Thank you. Sir, I think those 04:17:18 20 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 22 2 23 MR. WONG: I have no further questions. 22 2 25 15 15 15 15 15 15 15 15 15 15 15 15 15	10 THE WITNESS: I	don't understand your 04:15:55	10)
13 different topies. I'm giving you the opportunity to 14 provide any further testimony that you would like on 15 any of these topics if you'd like it. 04:16:05 16 A. So I don't understand what intellectual 17 property people think there is in some CLI syntax. 18 19 significance gets covered in patents. If we thought 20 it was worth protecting, we would copyright it. We 04:16:22 21 would patent it. 22 MR. WONG: Object to the form of the 22 anguestion. 23 BY MR. PAK: Q. Do you believe that 25 copyright is a form of intellectual property? 26 uestimony. 27 Image: A syntax in the word of the destinance of the word of the destinance of the state of copyright law? 28 The WITNESS: It calls for legal testimony. 29 In the WITNESS: It calls for legal testimony. 29 In the WITNESS: Vague as best. 29 BY MR. PAK: Q. What is your understanding 04:16:44 29 Figure 1 In the word of the standard of the word of the standard of the word of the standard of the word of the w	11 question.		11	
14 provide any further testimony that you would like on 15 any of these topics if you'd like it. 16 A. So I don't understand what intellectual 17 property people tlink there is in some CLI syntax. 18 The intellectual property is that's of 19 significance gets covered in patents. If we thought 20 it was worth protecting, we would copyright it. We 21 would patent it. 22 MR. WONG: Object to the form of the 22 a question. 23 question. 24 BY MR. PAK: Q. Do you believe that 25 copyright is a form of intellectual property? 26 THE WTINESS: It calls for legal testimony. 27 MR. WONG: Same objection. 28 THE WTINESS: Vague as best. 29 BY MR. PAK: Q. I take it, sir, that you 10 havent analyzed any copyright laws relating to 10 havent analyzed any copyright laws relating to 11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright 13 notice in the top of every source code file. That's 14 about all I know. 14 I work and I know. 15 Q. Okay. 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 19 19 20 MR. PAK: Thank you. Sir, I think those 21 1 J. ANTHONY J. LI, do hereby declare under 2 penalty of perjury that I have read the foregoing 3 transcript; that I have made any corrections as appear 4 noted, in ink, initialed by me, or attached hereto; that 5 my testimony as contained herein, as corrected, is true 6 and correct. 7 Executed this	12 BY MR. PAK: Q.	We talked about a lot of	12	
15 any of these topics if you'd like it. 04:16:05 16 A. So I don't understand what intellectual 16 17 property people think there is in some CLI syntax. 17 18 The intellectual property is that's of 18 19 significance gets covered in patents. If we thought 19 20 it was worth protecting, we would copyright it. We 04:16:22 20 21 would patent it. 22 22 MR. WONG: Object to the form of the 23 23 question. 23 24 BY MR. PAK: Q. Do you believe that 24 25 copyright is a form of intellectual property? 04:16:34 Page 254 1 MR. WONG: Objection. Calls for opinion 2 testimony. 4 I don't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 6 of copyright law? 4 for opyright law? 4 for opyright law? 4 for opyright law? 5 my testimony as contained herein, as corrected, is true 6 and correct. 7 Executed this day of some opyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 11 about all I know. 15 Q. Okay. 04:17:08 15 ANTHONY J. LJ. 4 NTHONY J. LJ. 4 NTHONY J. LJ. 4 Oviume 1 19 ANTHONY J. LJ. 5 NTHONY J. LJ. 5 NTHONY J. LJ. 6 A. I can't even tell you for certain what I'm 16 Volume 1 19 NTHONY J. LJ. 6 NTHONY J. LJ. 6 NTHONY J. LJ. 6 NTHONY J. LJ. 6 NTHONY J. LJ. 6 NTHONY J. LJ. 6 NTHONY J. LJ. 6 NTHONY J. LJ. 6 NTHONY J. LJ. 6 NTHONY J. LJ. 6 NTHONY J. LJ. 6 NTHONY J. LJ. 7 NT	13 different topics. I'm givi	ng you the opportunity to	13	
16 A. So I don't understand what intellectual 17 property people think there is in some CLI syntax. 18 The intellectual property is – that's of 19 significance gets covered in patents. If we thought 20 it was worth protecting, we would copyright it. We 04:16:22 21 would patent it. 22 MR. WONG: Object to the form of the 23 question. 24 BY MR. PAK: Q. Do you believe that 25 copyright is a form of intellectual property? 26 estimony. 27 THE WITNESS: It calls for legal testimony. 4 I don't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 6 of copyright law? 5 MR. WONG: Same objection. 8 THE WITNESS: Vague as best. 9 BY MR. PAK: Q. I take it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright about the top of every source code file. That's 14 about all I know. 15 Q. Okay. 16 A. I can't even tell you for certain what I'm 16 volume I 17 supposed to put in the top of stending what I'm 16 volume I 18 nobody can tell me exactly how I should deal with 19 multiple years. 20 MR. PAK: Thank you. Sir, I think those 04:17:18 20 are the questions I have for you today. 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 23 I'm 17 in the control of the c	14 provide any further testin	nony that you would like on	14	ł
17 property people think there is in some CLI syntax. 18 The intellectual property is that's of 19 significance gets covered in patents. If we thought 20 it was worth protecting, we would copyright it. We 21 would patent it. 22 MR. WONG: Object to the form of the 23 question. 24 BY MR. PAK: Q. Do you believe that 25 copyright is a form of intellectual property? 26 destinancy. 27 The WITNESS: It calls for opinion 28 THE WITNESS: It calls for legal testimony. 30 THE WITNESS: It calls for legal testimony. 41 Idon't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 64 of copyright law? 65 MR. WONG: Same objection. 8 THE WITNESS: Vague as best. 9 BY MR. PAK: Q. It take it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright 13 antice in the top of every source code file. That's 14 about all I know. 15 Q. Okay. 40:17:08 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 20 MR. WONG: I have no further questions. 21 MR. WONG: I have no further questions. 22 MR. WONG: I have no further questions. 23 LIA. The WITNESS in the face of the content	15 any of these topics if you	'd like it. 04:16:05	15	
18 The intellectual property is that's of 19 significance gets covered in patents. If we thought 20 it was worth protecting, we would copyright it. We 04:16:22 21 would patent it. 22 MR. WONG: Object to the form of the 23 question. 24 BY MR. PAK: Q. Do you believe that 25 copyright is a form of intellectual property? 26 Page 254 1 MR. WONG: Objection. Calls for opinion 2 testimony. 3 THE WITNESS: It calls for legal testimony. 4 I don't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 6 of copyright law? 7 MR. WONG: Same objection. 8 THE WITNESS: Nague as best. 9 BY MR. PAK: Q. Itake it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright 13 notice in the top of every source code file. That's 14 about all I know. 15 Q. Okay. 16 A. I can't even tell you for cortain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 20 20 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 23 are 24 25 page 254 26 Page 255 Page 255 Page 256 1 I, ANTHONY J. LI, do hereby declare under 2 penalty of perjury that I have read the foregoing 3 transcript, that I have made any corrections as appear 4 noted, in ink, initialed by me, or attached hereto; that 5 my testimony as contained herein, as corrected, is true 6 and correct. 7 Executed this day of 19 (city) (state) 10 (city) (state) 11	16 A. So I don't understa	and what intellectual	16	
19 significance gets covered in patents. If we thought 20 it was worth protecting, we would copyright it. We 04:16:22 21 would patent it. 22 MR. WONG: Object to the form of the 23 question. 24 BY MR. PAK: Q. Do you believe that 25 copyright is a form of intellectual property? 04:16:34 Page 254 1 MR. WONG: Objection. Calls for opinion 2 testimony. 3 THE WITNESS: It calls for legal testimony. 4 I don't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 6 of copyright law? 7 MR. WONG: Same objection. 8 THE WITNESS: Vague as best. 9 BY MR. PAK: Q. I take it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright 13 notice in the top of every source code file. That's 14 about all I know. 15 Q. Okay. O4:17:08 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 20 10 MR. WONG: I have no further questions. 21 22 23 24 25 26 27 28 29 29 29 20 31 I. ANTHONY J. LI, do hereby declare under 2 penalty of perjury that I have read the foregoing 3 transcript; that I have made any corrections as appear 4 noted, in ink, initialed by me, or attached hereto; that 5 my testimony as contained herein, as corrected, is true 6 and correct. 7 Executed this day of 8 2016, at (city) (state) 10 (city) (state) 11	17 property people think the	re is in some CLI syntax.	17	1
20 it was worth protecting, we would copyright it. We 04:16:22 21 would patent it. 22 MR. WONG: Object to the form of the 23 question. 24 BY MR. PAK: Q. Do you believe that 25 copyright is a form of intellectual property? 26	18 The intellectual property	is that's of	18	
21 would patent it. 22 MR. WONG: Object to the form of the 23 question. 24 BY MR. PAK: Q. Do you believe that 25 copyright is a form of intellectual property? O4:16:34 Page 254 1 MR. WONG: Objection. Calls for opinion 2 testimony. 3 THE WITNESS: It calls for legal testimony. 4 I don't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 6 of copyright law? 7 MR. WONG: Same objection. 8 THE WITNESS: Vague as best. 9 BY MR. PAK: Q. I take it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright 13 notice in the top of every source code file. That's 14 about all I know. 15 Q. Okay. 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 20 MR. PAK: Thank you. Sir, I think those 04:17:18 20 MR. PAK: Thank you. Sir, I think those 04:17:18 21 AI WONG: I have no further questions. 22 MR. WONG: I have no further questions. 23 MIII 24 25 26 22 28 24 25 26 25 27 28 24 25 28 25 29 Page 256 1 I, ANTHONY J. LI, do hereby declare under 2 penalty of perjury that I have read the foregoing 3 transcript; that I have made any corrections as appear 4 noted, in ink, initialed by me, or attached hereto; that 5 my testimony as contained herein, as corrected, is true 6 and correct. 7 Executed this day of 8 2016, at 9 (city) (state) 10 (state) 11	19 significance gets covered	in patents. If we thought	19	
22 MR. WONG: Object to the form of the 23 question. 24 BY MR. PAK: Q. Do you believe that 25 copyright is a form of intellectual property? O4:16:34 Page 254 1 MR. WONG: Objection. Calls for opinion 2 testimony. 3 THE WITNESS: It calls for legal testimony. 4 I don't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 6 of copyright law? 7 MR. WONG: Same objection. 8 THE WITNESS: Vague as best. 9 BY MR. PAK: Q. I take it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright 13 about all I know. 14 about all I know. 15 Q. Okay. 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 20 MR. PAK: Thank you. Sir, I think those 04:17:18 20 are the questions I have for you today. 21 MR. WONG: I have no further questions. 22 3/4 24 25	20 it was worth protecting, v	ve would copyright it. We 04:16:22	20	r
23 question. 24 BY MR. PAK: Q. Do you believe that 25 copyright is a form of intellectual property? 1 MR. WONG: Objection. Calls for opinion 2 testimony. 3 THE WITNESS: It calls for legal testimony. 4 I don't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 6 of copyright law? 7 MR. WONG: Same objection. 8 THE WITNESS: Vague as best. 9 BY MR. PAK: Q. I take it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright about a copyright about a li know. 15 Q. Okay. 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 20 MR. PAK: Thank you. Sir, I think those 04:17:18 21 MR. WONG: I have no further questions. 22 MR. WONG: I have no further questions. 23 24 25 Page 256 Page 256 Page 256 Page 256 1 I, ANTHONY J. LI, do hereby declare under 2 penalty of perjury that I have read the foregoing 3 transcript; that I have made any corrections as appear 4 noted, in ink, initialed by me, or attached hereto; that 5 my testimony as contained herein, as corrected, is true 6 and correct. 7 Executed this	21 would patent it.		21	
24 BY MR. PAK: Q. Do you believe that 25 copyright is a form of intellectual property? 1 MR. WONG: Objection. Calls for opinion 2 testimony. 3 THE WITNESS: It calls for legal testimony. 4 Idon't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 6 of copyright law? 7 MR. WONG: Same objection. 8 THE WITNESS: Vague as best. 9 BY MR. PAK: Q. I take it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright 13 notice in the top of every source code file. That's 14 about all I know. 15 Q. Okay. 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 20 MR. PAK: Thank you. Sir, I think those 04:17:18 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 24 24 25 Page 254 26 Page 255 1 I, ANTHONY J. LI, do hereby declare under 2 penalty of perjury that I have read the foregoing 3 transcript; that I have made any corrections as appear 4 noted, in ink, initialed by me, or attached hereto; that 5 my testimony as contained herein, as corrected, is true 6 and correct. 7 Executed this day of	22 MR. WONG: Obje	ct to the form of the	22	
25 copyright is a form of intellectual property? 04:16:34 Page 254 1 MR. WONG: Objection. Calls for opinion 2 testimony. 3 THE WITNESS: It calls for legal testimony. 4 I don't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 6 of copyright law? 7 MR. WONG: Same objection. 8 THE WITNESS: Vague as best. 9 BY MR. PAK: Q. I take it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright 13 notice in the top of every source code file. That's 14 about all I know. 15 Q. Okay. 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 20 MR. PAK: Thank you. Sir, I think those 04:17:18 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 25 Page 254 26 A. I can't even tell you for certain what I'm sulplosed to put in the top of the file because 26 MR. WONG: I have no further questions. 27 MR. WONG: I have no further questions. 28 Page 254 29 MR. WONG: Objection. Calls for opinion 29 penalty of perjury that I have read the foregoing 3 transcript; that I have made any corrections as appear 4 noted, in ink, initialed by me, or attached hereto; that 5 my testimony as contained herein, as corrected, is true 6 and correct. 7 Executed this	23 question.		23	
Page 254 I MR. WONG: Objection. Calls for opinion testimony. THE WITNESS: It calls for legal testimony. Idon't understand. BY MR. PAK: Q. What is your understanding 04:16:44 of copyright law? MR. WONG: Same objection. THE WITNESS: Vague as best. BY MR. PAK: Q. I take it, sir, that you haven't analyzed any copyright laws relating to 04:16:56 interface, APIs, user interfaces? A. I know that I'm supposed to put a copyright about all I know. Q. Okay. A. I can't even tell you for certain what I'm supposed to put in the top of the file because nobody can tell me exactly how I should deal with multiple years. MR. WONG: I have no further questions. MR. WONG: I have no further questions. MR. WONG: The work of the file because MR. WONG: The work of the file work of the file decay. I J. ANTHONY J. LI, do hereby declare under penalty of perjury that I have read the foregoing stranscript; that I have made any corrections as appear 4 noted, in ink, initialed by me, or attached hereto; that 5 my testimony as contained herein, as corrected, is true 6 and correct. 7 Executed this day of, 8 2016, at, 9 (city) (state) 10 haven't analyzed any copyright laws relating to 04:16:56 10 11 interface, APIs, user interfaces? 11 12 A. I know that I'm supposed to put a copyright 12 13 notice in the top of every source code file. That's 13 14 about all I know. 14 15 ANTHONY J. LI 16 Volume I 17 supposed to put in the top of the file because 17 18 nobody can tell me exactly how I should deal with 18 19 multiple years. 20 MR. PAK: Thank you. Sir, I think those 04:17:18 20 21 are the questions I have for you today. 21 22 MR. WONG: I have no further questions. 23 23 24 25	24 BY MR. PAK: Q.	Do you believe that	24	
1 MR. WONG: Objection. Calls for opinion 2 testimony. 3 THE WITNESS: It calls for legal testimony. 4 I don't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 6 of copyright law? 7 MR. WONG: Same objection. 8 THE WITNESS: Vague as best. 9 BY MR. PAK: Q. I take it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright 13 notice in the top of every source code file. That's 14 about all I know. 15 Q. Okay. 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 20 MR. PAK: Thank you. Sir, I think those 04:17:18 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 23 III. 24 25	25 copyright is a form of into	1 1 2	25	
2 penalty of perjury that I have read the foregoing 3 THE WITNESS: It calls for legal testimony. 4 I don't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 6 of copyright law? 7 MR. WONG: Same objection. 8 THE WITNESS: Vague as best. 9 BY MR. PAK: Q. I take it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright 13 notice in the top of every source code file. That's 14 about all I know. 15 Q. Okay. 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 20 MR. PAK: Thank you. Sir, I think those 04:17:18 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 23 penalty of perjury that I have made any corrections as appear 4 noted, in ink, initialed by me, or attached hereto; that 5 my testimony as contained herein, as corrected, is true 6 and correct. 7 Executed thisday of		Page 254		Page 256
2 penalty of perjury that I have read the foregoing 3 THE WITNESS: It calls for legal testimony. 4 I don't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 6 of copyright law? 7 MR. WONG: Same objection. 8 THE WITNESS: Vague as best. 9 BY MR. PAK: Q. I take it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright 13 notice in the top of every source code file. That's 14 about all I know. 15 Q. Okay. 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 10 MR. PAK: Thank you. Sir, I think those 04:17:18 20 AR. WONG: I have no further questions. 21 AR. WONG: I have no further questions. 22 AR. WONG: I have no further questions. 23 IIII 24 25	1 MR WONG: Obje	ction. Calls for opinion	1	I. ANTHONY J. LI. do hereby declare under
3 THE WITNESS: It calls for legal testimony. 4 I don't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 6 of copyright law? 7 MR. WONG: Same objection. 8 THE WITNESS: Vague as best. 9 BY MR. PAK: Q. I take it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright 13 notice in the top of every source code file. That's 14 about all I know. 15 Q. Okay. 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 20 MR. PAK: Thank you. Sir, I think those 04:17:18 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 24 25	_	crion. Cans to: opinion	1	
4 I don't understand. 5 BY MR. PAK: Q. What is your understanding 04:16:44 6 of copyright law? 7 MR. WONG: Same objection. 8 THE WITNESS: Vague as best. 9 BY MR. PAK: Q. I take it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright 13 notice in the top of every source code file. That's 14 about all I know. 15 Q. Okay. 04:17:08 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 20 MR. PAK: Thank you. Sir, I think those 04:17:18 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 23 /// 24 25	_	calls for legal testimony.	1	
5 BY MR. PAK: Q. What is your understanding 04:16:44 6 of copyright law? 7 MR. WONG: Same objection. 8 THE WITNESS: Vague as best. 9 BY MR. PAK: Q. I take it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright 13 notice in the top of every source code file. That's 14 about all I know. 15 Q. Okay. 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 20 MR. PAK: Thank you. Sir, I think those 04:17:18 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 23 /// 24 25			1	* *
6 of copyright law? 7 MR. WONG: Same objection. 8 THE WITNESS: Vague as best. 9 BY MR. PAK: Q. I take it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright 13 notice in the top of every source code file. That's 14 about all I know. 15 Q. Okay. 04:17:08 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 20 MR. PAK: Thank you. Sir, I think those 04:17:18 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 23 /// 24 25		What is your understanding 04:16:44		
7 MR. WONG: Same objection. 8 THE WITNESS: Vague as best. 9 BY MR. PAK: Q. I take it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright 13 notice in the top of every source code file. That's 14 about all I know. 15 Q. Okay. 04:17:08 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 20 MR. PAK: Thank you. Sir, I think those 04:17:18 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 23 //// 24 25			1	
8 THE WITNESS: Vague as best. 9 BY MR. PAK: Q. I take it, sir, that you 10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 11 12 A. I know that I'm supposed to put a copyright 13 notice in the top of every source code file. That's 14 about all I know. 15 Q. Okay. 04:17:08 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 2016, at		e objection.	1	
9 BY MR. PAK: Q. I take it, sir, that you 10 haven't analyzed any copyright laws relating to 11 interface, APIs, user interfaces? 11 12 A. I know that I'm supposed to put a copyright 12 anotice in the top of every source code file. That's 13 about all I know. 14 bout all I know. 15 Q. Okay. 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 19 20 MR. PAK: Thank you. Sir, I think those 04:17:18 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 23 /// 24 25		•	8	
10 haven't analyzed any copyright laws relating to 04:16:56 11 interface, APIs, user interfaces? 11 12 A. I know that I'm supposed to put a copyright 12 13 notice in the top of every source code file. That's 13 14 about all I know. 14 15 Q. Okay. 04:17:08 15 ANTHONY J. LI 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 19 20 MR. PAK: Thank you. Sir, I think those 04:17:18 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 23 24 25 25		•		
11 interface, APIs, user interfaces? 12 A. I know that I'm supposed to put a copyright 13 notice in the top of every source code file. That's 14 about all I know. 15 Q. Okay. 16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 19 WR. PAK: Thank you. Sir, I think those 04:17:18 20 are the questions I have for you today. 21 are the questions I have no further questions. 22 MR. WONG: I have no further questions. 23 //// 24 25	Ī	•		
12 A. I know that I'm supposed to put a copyright 13 notice in the top of every source code file. That's 14 about all I know. 15 Q. Okay. 04:17:08 16 A. I can't even tell you for certain what I'm 16 Yolume I 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 19 20 MR. PAK: Thank you. Sir, I think those 04:17:18 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 23 //// 24 25 26 27 28 29 20 20 21 22 23 24 24 25 25]		1	
13 notice in the top of every source code file. That's 14 about all I know. 15 Q. Okay. 16 A. I can't even tell you for certain what I'm 16 Volume I 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 20 MR. PAK: Thank you. Sir, I think those 04:17:18 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 23 //// 24 25 25				
14 about all I know. 15 Q. Okay. 16 A. I can't even tell you for certain what I'm 16 Volume I 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 10 MR. PAK: Thank you. Sir, I think those 04:17:18 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 23 //// 24 25	1			
15 Q. Okay. 04:17:08 15 ANTHONY J. LI 16 A. I can't even tell you for certain what I'm 16 Volume I 17 supposed to put in the top of the file because 17 18 nobody can tell me exactly how I should deal with 18 19 multiple years. 19 20 MR. PAK: Thank you. Sir, I think those 04:17:18 20 21 are the questions I have for you today. 21 22 MR. WONG: I have no further questions. 22 23 //// 24 25 25				
16 A. I can't even tell you for certain what I'm 17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 20 MR. PAK: Thank you. Sir, I think those 04:17:18 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 23 //// 24 25 25	<u>}</u>	04:17:08		ANTHONY J. LI
17 supposed to put in the top of the file because 18 nobody can tell me exactly how I should deal with 19 multiple years. 19 20 MR. PAK: Thank you. Sir, I think those 04:17:18 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 23 //// 24 25 25			i	
18 nobody can tell me exactly how I should deal with 19 multiple years. 10 MR. PAK: Thank you. Sir, I think those 04:17:18 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 23 //// 24 25 25	•			
19 multiple years. 20 MR. PAK: Thank you. Sir, I think those 04:17:18 20 21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 23 //// 24 25 25			1	
20 MR. PAK: Thank you. Sir, I think those 04:17:18 20 21 are the questions I have for you today. 21 22 MR. WONG: I have no further questions. 22 23 //// 24 24 25 25	1	,]	
21 are the questions I have for you today. 22 MR. WONG: I have no further questions. 23 //// 24 25 25	1	ou Sir I think those 04:17:18	1	
22 MR. WONG: I have no further questions. 22 23 //// 23 24 24 25 25	1	•	ì	
23 //// 24 25 23 25 25	1		l	
24 25 25 25			1	
25	•		l	
=		Page 255		Page 257

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 34 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 34 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

1	I, the undersigned, a Certified Shorthand	
	Reporter of the State of California, do hereby	
3	certify:	
4		
	before me at the time and place herein set forth;	
	that any witnesses in the foregoing proceedings,	
	prior to testifying, were administered an oath; that	
	a record of the proceedings was made by me using	
	machine shorthand which was thereafter transcribed	
	under my direction; that the foregoing transcript is	
12	a true record of the testimony given. Further, that if the foregoing pertains to	
	the original transcript of a deposition in a Federal	
	Case, before completion of the proceedings, review	
	of the transcript [X] was [] was not requested.	
16	I further certify I am neither financially	
	interested in the action nor a relative or employee	
	of any attorney or any party to this action.	
19	IN WITNESS WHEREOF, I have this date	
20	subscribed my name.	
21	Dated: February 3, 2016	
22	-	
23		
	(Man IN -	
24	Susan F. Magee	
25	CSR No. 11661, RPR, CCRR, CLR	
	Page 258	

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 35 of 122

	Page 1		Page :
	UNITED STATES DISTRICT COURT	1	APPEARANCES:
	NORTHERN DISTRICT OF CALIFORNIA	2	
	SAN JOSE DIVISION	3	
		4	ON BEHALF OF THE PLAINTIFF CISCO SYSTEMS, INC., and
	CISCO SYSTEMS, INC.,	5	the WITNESS:
	Plaintiff,	6	QUINN EMANUEL URQUHART & SULLIVAN, LLP
	vs. No. 5:14-cv-05344-BLF(PSG)	7	By: SEAN S. PAK, Esq.
	ARISTA NETWORKS, INC.,	8	50 California Street, 22nd Floor
	Defendant.	9	San Francisco, California 94111
		10	Phone: 415.875.6600
		11	seanpak@quinnemanuel.com:
	CONFIDENTIAL DUD CLANT TO THE DROTECTIVE ORDER	12	
	CONFIDENTIAL PURSUANT TO THE PROTECTIVE ORDER	13	
	VIDEOTAPED DEPOSITION OF TONG LIU	14	ON BEHALF OF THE DEFENDANT ARISTA NETWORKS, INC.
	FRIDAY, JANUARY 15, 2016	15	KEKER & VAN NEST LLP
	PALO ALTO, CALIFORNIA	16	By: RYAN WONG, Esq.
	This is, order order.	17	633 Battery Street
		18	San Francisco, California 94111-1809
		19	Phone: 415.773.6682
		20	rwong@kvn.com
	Reported by:	21	
	ANDREA M. IGNACIO, CSR, RPR, CRR, CCRR, CLR	22	ALSO PRESENT: Kevin Foor, Videographer
	CSR LICENSE NO. 9830	23	
	JOB NO. 2211574	24	000
	Pages 1 - 215	25	
	Page 2		Page 4
1	UNITED STATES DISTRICT COURT	1	INDEX
2	NORTHERN DISTRICT OF CALIFORNIA	2	INDLX
3	SAN JOSE DIVISION	3	WITNESS: Tong Liu
4		4	WITHLOS. Tong Did
5	CISCO SYSTEMS, INC.,	5	EXAMINATION PAGE
6	Plaintiff,	6	By Mr. Wong 7, 207
7	vs. No. 5:14-cv-05344-BLF(PSG)	7	By Mr. Pak 185
8	ARISTA NETWORKS, INC.,	8	Dy Marit and
9	Defendant.	9	EXHIBITS
	/	10	EXHIBIT PAGE
0		11	Exhibit 92 Amended Exhibit F; 45 pgs. 67
.1		12	Exhibit 93 IEEE Standard for a Precision 84
2		13	Clock Synchronization Protocol
3	YELL OF THE OFFICE OF THE OFFI	14	for Networked Measurement and
4	Videotaped Deposition of Tong Liu, taken on	15	Control Systems, Bates
5 6	Friday, January 15, 2016, pursuant to notice, on behalf of the Defendants, at 610 Page Mill Road,	16	ARISTANDCA00031733 - '32021;
.6 .7	· ·	17	289 pgs.
. 7	Palo Alto, California before me, ANDREA M. IGNACIO, CSR, RPR, CRR, CCRR, CLR ~ CSR License No. 9830	18	Exhibit 94 IEEE1588 Precision Tine Protocol 100
.9	CON, M. M. CMM, COMM, CLIX ~ COM LICEUSE INU. 7030	19	Platform-Independent Software
0		20	Functional Specification, Bates
1		21	CSI-CLI-00610555 - '81; 27 pgs.
2		22	Exhibit 95 6-25-08 E-mail, Subject: Seeking 122
3		23	permission for adding PTP CLI
		24	comments; Bates CSI-CLI-00846643;
24		~ 1	comments, Bates est est oco 100 15,

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 36 of 122

	Page 5		Page 7
1	EXHIBITS (Continued.)	1	way.
2		2	If there are any objections to proceeding,
3	EXHIBIT PAGE	3	please state them at the time of your appearance.
4	Exhibit 96 6-25-08 E-mail, Subject: Seeking 124	4	And if you would please state your
5	permission for adding PTP CLI	5	appearances.
6	commands, Bates CSI-CLI-00608739	6	MR. WONG: Ryan Wong from Keker & Van Nest
7	- '40; 2 pgs.	7	for defendant Arista Networks.
8	Exhibit 97 6-26-08 E-mail, Subject: Seeking 128	8	MR. PAK: Sean Pak of Quinn Emanuel,
9	permission for adding PTP CLI	9	representing Cisco and the witness.
10	commands, Bates CSI-CLI-00846656	10	THE VIDEOGRAPHER: Thank you.
11	- '57; 2 pgs.	11	If the court reporter would please swear the
12	Exhibit 98 Cisco Nexus 7000 Series NX-OS 157	12	witness, we can begin.
13	System Management Command	13	
14	Reference, Bates CSI-CLI-00194055	14	TONG LIU,
15	- '9480; 626 pgs.	15	having been sworn as a witness
16		16	by the Certified Shorthand Reporter,
17	oOo	17	testified as follows:
18		18	
19	PREVIOUSLY MARKED EXHIBITS	19	EXAMINATION
20	Difference of the contract of	20	BY MR. WONG:
21	Exhibit 53 CLI Design and Review Guide, Bates	21	Q Good morning, Ms. Liu.
22	CSI-ANI-00073381 - '.000014; 15 pgs.	22	A Good morning.
23 24		23	Q Please state your full name for the record.
25		24	A Tong Liu.
23		25	Q Do you go by any other names, Ms. Liu?
a contract for entire ording these per sector	Page 6		Page 8
1	PALO ALTO, CALIFORNIA	1	A At work, I go with Toni.
2	FRIDAY, JANUARY 15, 2016	2	Q Could you spell Toni for me, please.
3	9:32 A.M.	3	A T-O-N-I.
4		4	Q Okay. Have you gone by Toni Liu for for
5		5	what period of time have you gone by Toni Liu?
6		6	A That name is only used at work. It's not an
7	THE VIDEOGRAPHER: Good morning. We are on	7	officially alternative name.
8	the record at 9:32 on January 15th of the year 2016.		
9	This is the video deposition of Tong Liu.		
10	My name is Kevin Foor. I'm here with court		
11	reporter Andrea Ignacio. And we are here from		
12	Veritext Legal Solutions at the request of Keker &	19.	
13	Van Nest.		
14	This deposition is being held at Wilson		
15	Sonsini Goodrich & Rosati in Palo Alto.		
16	The caption of the case is Cisco Systems,		
17	Inc., v. Arista Networks. That is case 514-CV-05344		
18	ELF BSG.		
19 20	Please note that audio and video recording	20	O. Thank you
21	will take place unless all parties agree to go off the	21	Q Thank you. Who is your current employer, Ms. Liu?
22	record. Microphones are sensitive and may pick up whispers, private conversations, and cell	22	A Aruba Networks.
23	interference.	23	Q Do you have a work address for Aruba
24	I'm not related to any party in this action,	24	Networks?
25	nor am I interested financially in the outcome in any	25	A 1322 Crossman Avenue, Sunnyvale.
	Interested manerally in the outcome in any		1322 erossimm revenue, omnig vare,

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 37 of 122

	Page 93		Page 95
		1	
1	MR. WONG: You testified earlier that PTP was	1	Ethernet device, and you worked on implementing that?
2	one of the protocols identified to be interoperative.	2	A Right.
3	Q Were there were you aware of any other	3	Q Okay. And you don't know the reasons behind
4	protocols that were identified to be interoperative?	4	the decision to add PTP functionality well,
5 6	A I'm not aware of that.	5	actually, strike that.
7	Q Okay. But you were aware that PTP was identified?	6 7	So did you see the IEEE PTP standard before
8	A Right.	8	you began adding PTP functionality to the Cisco industrial Ethernet device?
9	Q And do you know which other vendors supported	9	A When you say "before," it's before I started
10	PTP, based upon your team's investigation, before	10	writing code?
11	adding PTP to the industrial Ethernet products?	11	Q Yes.
12	A Siemens is one vendor.	12	A I yes, I read the spec
13	Q Okay. So Siemens supported PTP in its	13	Q Okay.
14	devices before PTP functionality was added to the	14	A for understanding to understand how it
15	Cisco industrial Ethernet devices; correct?	15	works.
16	MR. PAK: Objection; calls for speculation.	16	
17	THE WITNESS: I don't know the I don't	17	Q I see. So you read the and by "the spec," you
18	recall the exact details, but I do remember Siemens	18	mean the IEEE PTP spec?
19	was mentioned in our previous conversations. I mean,	19	A Yes.
20	the was in the team.	20	Q During the break, the court reporter marked
21	MR. WONG: Oh.	21	as Exhibit No. 93 the document right there to your
22	Q Siemens was	22	right.
23	A I	23	MR. WONG: And counsel, here's a copy for you
24	Q Sorry. Go ahead.	24	as well.
25	A Yes, as one important vendor for industrial	25	MR. PAK: Thanks.
23	A Tes, as one important vendor for industrial	25	MR. FAR. Hanks.
	Page 94		Page 96
1	devices.	1	MR. WONG: The document bears control numbers
2	Q And I think you answered this earlier, but	2	AristaNDCA00031733 to '32021,
3	your team did not look at the specifics of how Siemens	3	Q Ms. Liu, you can take your time to look at
4	implemented PTP when you started adding PTP commands	4	the document, but the question that I have for you is:
5	to Cisco's industrial Ethernet devices; correct?	5	Do you recognize this document marked as Exhibit 93?
6	A We didn't look at any other vendor's device	6	A Yes, I I think this is the one we used, as
7	at the time.	7	well as the standard.
8	Q Okay. Have you seen the IEEE PTP standard	8	Q Okay. Can you read the title of the IEEE
9	before?	9	specification marked as Exhibit 93.
10	A "Before" meaning before today or before	10	A "IEEE standard for the precision clock
11	Q Yes, before today.	11	synchronization protocol for network measurement and
12	A Before today, yes.	12	control systems."
13	Q When was the first time that you saw the IEEE	13	Q Okay. And the the I guess the number
14	PTP standard?	14	for the standard on the bottom right is IEEE
15	A That's when I was working on this industrial	15	standard 1588-2008.
16	Ethernet switch development around 2008, I think.	16	Do you see that?
17	Q Was it your choice to add I'm sorry.	17	A Yes, uh-huh.
18	Strike that.	18	Q And this is the PTP IEEE standard that we
19	Was it your suggestion to add PTP	19	have been talking about in this deposition; correct?
20	functionality to the Cisco industrial Ethernet device?	20	A Yes.
21	A It was some decision made, and I was the one	21	Q Okay. So so the exhibit marked as 93 is
22	implementing it.	22	the standard that you reviewed before you began coding
	Q I see.	23	the PTP functionality for the Cisco industrial
23		1	nd of the contract of the cont
23 24	So somebody else at Cisco made the decision	24	Ethernet device; correct?
	So somebody else at Cisco made the decision to add PTP functionality to the Cisco industrial	24 25	A Yes.

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 38 of 122

	Page 97		Page 99
1	Q Okay. And did you read the entire standard	1	
2	before you began working on the PTP functionality?	2	message.
3	A Yeah, I believe I read the the entire	1	Q And those are specified in the IEEE PTP
	•	3	standard; right?
4	or the majority part of it.	4	A Yes.
5	Q That's that's impressive.	5	Q And you followed those standards when
6	How the standard is is several hundred	6	implementing the PTP functionality in Cisco's
7	pages long.	7	industrial Ethernet products; right?
8	But you read the whole thing you remember	8	MR. PAK: Objection; vague.
9	reading the whole thing?	9	THE WITNESS: For the messages, yes.
10	A Yes.	10	MR. WONG: Q. And for the field definitions
11	Q Did you consult with the standard marked as	11	as well?
12	Exhibit 93 while you were coding the PTP functionality	12	A The field definition if you mean the
13	for Cisco's industrial Ethernet devices?	13	how wide the field is, which field needs to follow
14	A Yes. All of the messages format, the field	14	which one, yes. But particularly on the name of the
15	definitions behaviors, are documented here.	15	field, that may not necessarily be the same as the
16	Q Okay. So so every PTP functionality	16	spec.
17	every aspect of PTP functionality that you implemented	17	Q Okay. Did you have any role in developing
18	in Cisco's industrial Ethernet devices are based on	18	the PTP standard marked as Exhibit 93?
19	the IEEE standard marked as Exhibit 93?	19	A You mean contributing to the standard itself?
20	MR. PAK: Objection; mischaracterizes the	20	Q Yes.
21	witness' testimony.	21	A No.
22	MR. WONG: Q. Correct?	22	Q Did you contribute to the standard that
23	MR. PAK: Assumes facts not in evidence.	23	preceded the standard marked as Exhibit 93?
24	THE WITNESS: There are multiple parts of it	24	And I believe you called that PTP version 1.
25	for the implementation part. There is the protocol	25	A No.
20	for the implementation part. There is the protocol	2.5	71 110.
	Page 98		Page 100
1	part, which are the messages, the state machine, the	1	Q Did you have any role in drafting the
2	field definitions. Those we base off the the spec.	2	document that is marked as Exhibit 93?
3	There are the way we calculate the clock difference.	3	A No.
4	Those are not documented here. Those are what we	4	Q Do you know I think I know the answer
5	developed. And there's also the CLI command which we	5	but do you know if Mr. Bilstead had any role in
6	came up with separately.	6	developing the standard marked as Exhibit 93?
7	MR. WONG: Q. When you say "messages," what	7	A I don't know anything about that part.
8	do you mean by messages?	8	Q Okay. And you don't know anything about
9	A So, the PTP protocol has if I recall, has	9	whether Mr. Watve had contributed to the standard
10	multiple set is a handshaking message. So the	10	marked as Exhibit 93?
11	format of the message, which one follows what, which	11	A I don't know that part, either.
12	field is contained in which message, those are defined	12	Q Okay. Excuse me.
13	in the spec.	13	MR. WONG: Can we mark this one as 94.
14	Q Okay. And you followed those definitions	14	(Document marked Exhibit 94
T-4	when you implemented the PTP functionality in Cisco's	15	for identification.)
1.5	when you implemented the LTL functionality in Cisco's		MR. WONG: Okay. The court reporter has
15 16	industrial Ethernet devices right?		IVILL WOING, OKAY, THE COURT TEDOTTER HAS
16	industrial Ethernet devices; right?	16 17	
16 17	A Yes, the format of the messages.	17	marked Exhibit 94, the document with control
16 17 18	A Yes, the format of the messages.Q Okay. You also mentioned field definitions.	17 18	marked Exhibit 94, the document with control Nos. CSI-CLI-00610555 to '610581.
16 17 18 19	A Yes, the format of the messages.Q Okay. You also mentioned field definitions.What do you mean by field definitions?	17 18 19	marked Exhibit 94, the document with control Nos. CSI-CLI-00610555 to '610581. Q Ms. Liu, take your time in looking at this
16 17 18 19 20	A Yes, the format of the messages.Q Okay. You also mentioned field definitions.What do you mean by field definitions?A Those are inside of the message itself.	17 18 19 20	marked Exhibit 94, the document with control Nos. CSI-CLI-00610555 to '610581. Q Ms. Liu, take your time in looking at this document, but my first question for you is whether you
16 17 18 19 20 21	 A Yes, the format of the messages. Q Okay. You also mentioned field definitions. What do you mean by field definitions? A Those are inside of the message itself. Q Okay. What are fields? 	17 18 19 20 21	marked Exhibit 94, the document with control Nos. CSI-CLI-00610555 to '610581. Q Ms. Liu, take your time in looking at this document, but my first question for you is whether you recognize this document?
16 17 18 19 20 21	 A Yes, the format of the messages. Q Okay. You also mentioned field definitions. What do you mean by field definitions? A Those are inside of the message itself. Q Okay. What are fields? A Like, header, checksum. There are time 	17 18 19 20 21 22	marked Exhibit 94, the document with control Nos. CSI-CLI-00610555 to '610581. Q Ms. Liu, take your time in looking at this document, but my first question for you is whether you recognize this document? A I don't recognize this document.
16 17 18 19 20 21 22	 A Yes, the format of the messages. Q Okay. You also mentioned field definitions. What do you mean by field definitions? A Those are inside of the message itself. Q Okay. What are fields? A Like, header, checksum. There are time stamps inside of the message, and how big how wide 	17 18 19 20 21 22 23	marked Exhibit 94, the document with control Nos. CSI-CLI-00610555 to '610581. Q Ms. Liu, take your time in looking at this document, but my first question for you is whether you recognize this document? A I don't recognize this document. Q Okay. Have you seen any version of this
16 17 18 19 20 21	 A Yes, the format of the messages. Q Okay. You also mentioned field definitions. What do you mean by field definitions? A Those are inside of the message itself. Q Okay. What are fields? A Like, header, checksum. There are time 	17 18 19 20 21 22	marked Exhibit 94, the document with control Nos. CSI-CLI-00610555 to '610581. Q Ms. Liu, take your time in looking at this document, but my first question for you is whether you recognize this document? A I don't recognize this document.

Case 5:14-cy-05344-BLF Document 512-8 Filed 09/06/16 Page 39 of 122

1 2 3 4	Page 105 MR. WONG: Q that PTP meant precision	1	Page 107 lists the PTP which lists PTP as an acronym;
2 3			
3	time protocol?	2	correct?
l	MR. PAK: Same objections.	3	MR. PAK: Objection; vague.
-	THE WITNESS: I don't think it's well known	4	THE WITNESS: I would say the meanings are
5	in the entire networking industry.	5	the same, that they mean precision time protocol.
6	MR. WONG: Okay.	6	MR. WONG: Q. Well, the the words are the
7	Q Was there a subset of the networking industry	7	same, too; correct?
8	where PTP was known to refer to the PTP in Exhibit 93?	8	PTP in the command is the same three letters
9	MR. PAK: Objection; vague; calls for	9	that appear on page 8 of Exhibit 93; correct?
1.0	speculation; assumes facts not in evidence.	10	A It's the same acronym.
11	THE WITNESS: It's not as normal a term as IP	11	Q And they're referring to the same protocol;
1.2	or MAC. The the term is still I think even for	12	correct?
1.3	people who are working on the Catalyst switches, it's	13	A Yes.
1.4	not a very well-known term.	14	Q Now, if you'll turn to page 4 of Exhibit 93.
15	MR. WONG: Okay.	15	A (Witness complies.) Okay.
16	Q But certainly, the IEEE standard marked as	16	Q You can take off the well
17	Exhibit 93 defines the PTP acronym; correct?	17	A This is
18	A Yes.	18	Q maybe you want to keep that together,
19	Q And uses the PTP acronym	19	actually.
20	A Yes.	20	A Right.
21	Q to describe precision time protocol;	21	Q On page 4 of Exhibit 93, there is a large
22	correct?	22	heading No. 3 entitled:
23	A True.	23	"Definitions, acronyms, and abbreviations."
24	Q And it uses that PTP acronym to describe the	24	Do you see that?
25	PTP functionality that you implemented in Cisco's	25	A Yes.
errera kanananan kananaran			
	Page 106		Page 108
1	industrial Ethernet devices; right?	1	Q And then subsection 3.1 says "Definitions."
2	MR. PAK: Objection; assumes facts not in	2	Do you see that?
3	evidence; mischaracterizes the witness' prior	3	A Yes.
4	testimony.	4	Q Definition 3.1.4 in the IEEE PTP
5	THE WITNESS: In this spec, yes.	5	specification defines the term "clock."
6	MR. WONG: Q. Well, is PTP used in Cisco's	6	Do you see that?
7	industrial Ethernet device in a different way than	7	A Yes, uh-huh.
8	what PTP means in Exhibit 93?	8	Q What is the definition of clock in the IEEE
9	MR. PAK: Objection; vague.	9	standard?
10	MR. WONG: Let me rephrase the question.	10	A It's no participating in the precision time
11	Q In the five commands that you're associated	11	protocol, PTP, that is capable of providing a
12	with in Exhibit 92	12	measurement of the passage of time since a defined
13	A Right.	13	epoch.
1.4	Q all of them use the acronym PTP; correct?	14	Q And you have read these definitions before
15	A Yes.	15	you began developing the PTP functionality in Cisco's
16	Q That PTP refers to the same PTP that is shown	16	industrial Ethernet devices; right?
17	on page 8 of Exhibit 93; right?	17	A Yes.
18	MR. PAK: Objection; vague.	18	Q So you were familiar with these IEEE defined
19	THE WITNESS: I think when I chose the	19	terms before you began working on the PTP
20	command, yes, I used PTP to mean the same as precision	20	functionality; correct?
21	time protocol	21	A Yes.
22	MR. WONG: Right.	22	Q And you knew they were in the IEEE standard;
23	THE WITNESS: as in the spec.	23	correct?
	MR. WONG: Q. As in the spec and, in fact,	24	A Yes.
24	wife, world. Q. As in the spee that, in fact,		11 100,

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 40 of 122

1	Page 109	T	Page 111
1	read, is that your understanding of what a clock is in	1	Q If you'd turn to page 53 of Exhibit 93. Let
2	the context of PTP?	2	me know when you're there.
3	MR. PAK: Objection; vague.	3	A 53?
4	THE WITNESS: So, in the context of PTP	4	Q The ending control number for that is '31805.
5	standard or spec, yes, a clock means this.	5	A (Witness complies.) Yeah, I found it.
6	MR. WONG: Q. A clock means what it says on	6	Q Okay. If you look above so, near the
7	page 4 of	7	bottom of the page, you see in bold:
8	A Yes.	8	"7.6.2 PTP Device Attributes."
9	Q Exhibit 93?	9	Do you see that?
10	A Right.	10	A Yes.
11	Q And you you you did not come up with	11	Q Okay. Right above that, there are there
12	the term clock in the context of PTP; correct?	12	are two sort of indented bullet points, I guess, or
13	A No.	13	dashes.
14	Q All right.	14	Do you see that?
15	Clock is just a defined term in the IEEE	15	A (Witness nods head.)
	standard marked as Exhibit 93; correct?	16	Q And then, right above that is a sentence that
16 17	A Yes.	17	begins with the words "ordinary and boundary clocks."
18	Q Okay. If you'll look at page 6 of	18	Do you see that?
19	Exhibit 93.	19	A Ordinary and boundary clocks.
20	A (Witness complies.) Right.	20	Q Yep.
21	Q Term 3.1.23; do you see that?	21	A Okay.
22	It defines the term "parent clock" correct?	22	Q So that full sentence says:
23	A Yes.	23	"Ordinary and boundary clocks may keep
24	Q What's the definition of parent clock?	24	statistics on the performance of their parents using
25	A The master clock to which a clock is	25	the following attributes."
23	A THE master clock to which a clock is		the following authorites.
	Page 110		Page 112
1	synchronized.	1	Do you see that?
2	Q And is that your understanding of what a	2	A I haven't found that sentence.
3	parent clock is in the context of PTP?	3	Oh, yeah, found it.
4	A It is.	4	Q Okay. That sentence in the IEEE standard
5	Q And you get that understanding from the IEEE	5	uses the term parents; do you see that?
6	standard marked as Exhibit 93; correct?	6	A Yes.
7	A Yes.	7	Q Is it your understanding that that that
8	Q All right.	8	parents term refers to a parent clock?
			Partition to the Partition of the Partit
9	You don't disagree with that definition;	9	MR. PAK: If you need to take some time to
9 10	You don't disagree with that definition; correct?	9 10	•
		ł	MR. PAK: If you need to take some time to
10	correct?	10	MR. PAK: If you need to take some time to look at the document more closely, you can do that.
10 11	correct? A No.	10 11	MR. PAK: If you need to take some time to look at the document more closely, you can do that. THE WITNESS: Yes.
10 11 12	correct? A No. Q And you don't disagree with the definition of	10 11 12	MR. PAK: If you need to take some time to look at the document more closely, you can do that. THE WITNESS: Yes. MR. PAK: Okay.
10 11 12 13	correct? A No. Q And you don't disagree with the definition of clock in the IEEE PTP standard; right?	10 11 12 13	MR. PAK: If you need to take some time to look at the document more closely, you can do that. THE WITNESS: Yes. MR. PAK: Okay. THE WITNESS: I think it it's referring to
10 11 12 13 14	correct? A No. Q And you don't disagree with the definition of clock in the IEEE PTP standard; right? A No, I don't.	10 11 12 13 14	MR. PAK: If you need to take some time to look at the document more closely, you can do that. THE WITNESS: Yes. MR. PAK: Okay. THE WITNESS: I think it it's referring to the parent clock.
10 11 12 13 14 15	correct? A No. Q And you don't disagree with the definition of clock in the IEEE PTP standard; right? A No, I don't. Q Okay. Now, the term parent also refers to	10 11 12 13 14 15	MR. PAK: If you need to take some time to look at the document more closely, you can do that. THE WITNESS: Yes. MR. PAK: Okay. THE WITNESS: I think it it's referring to the parent clock. MR. WONG: Right.
10 11 12 13 14 15	correct? A No. Q And you don't disagree with the definition of clock in the IEEE PTP standard; right? A No, I don't. Q Okay. Now, the term parent also refers to the parent clock in a PTP context; correct?	10 11 12 13 14 15	MR. PAK: If you need to take some time to look at the document more closely, you can do that. THE WITNESS: Yes. MR. PAK: Okay. THE WITNESS: I think it it's referring to the parent clock. MR. WONG: Right. Q There's no ambiguity in the context of the
10 11 12 13 14 15 16	correct? A No. Q And you don't disagree with the definition of clock in the IEEE PTP standard; right? A No, I don't. Q Okay. Now, the term parent also refers to the parent clock in a PTP context; correct? A The term parent	10 11 12 13 14 15 16	MR. PAK: If you need to take some time to look at the document more closely, you can do that. THE WITNESS: Yes. MR. PAK: Okay. THE WITNESS: I think it it's referring to the parent clock. MR. WONG: Right. Q There's no ambiguity in the context of the IEEE standard that parent refers to parent clock;
10 11 12 13 14 15 16 17	correct? A No. Q And you don't disagree with the definition of clock in the IEEE PTP standard; right? A No, I don't. Q Okay. Now, the term parent also refers to the parent clock in a PTP context; correct? A The term parent MR. PAK: Objection; vague.	10 11 12 13 14 15 16 17	MR. PAK: If you need to take some time to look at the document more closely, you can do that. THE WITNESS: Yes. MR. PAK: Okay. THE WITNESS: I think it it's referring to the parent clock. MR. WONG: Right. Q There's no ambiguity in the context of the IEEE standard that parent refers to parent clock; right? A Yes. Here, it means yeah, it does mean parent clock.
10 11 12 13 14 15 16 17 18	correct? A No. Q And you don't disagree with the definition of clock in the IEEE PTP standard; right? A No, I don't. Q Okay. Now, the term parent also refers to the parent clock in a PTP context; correct? A The term parent MR. PAK: Objection; vague. THE WITNESS: in this document	10 11 12 13 14 15 16 17 18 19 20 21	MR. PAK: If you need to take some time to look at the document more closely, you can do that. THE WITNESS: Yes. MR. PAK: Okay. THE WITNESS: I think it it's referring to the parent clock. MR. WONG: Right. Q There's no ambiguity in the context of the IEEE standard that parent refers to parent clock; right? A Yes. Here, it means yeah, it does mean parent clock. Q Okay. So, in the context of the PTP
10 11 12 13 14 15 16 17 18 19 20	correct? A No. Q And you don't disagree with the definition of clock in the IEEE PTP standard; right? A No, I don't. Q Okay. Now, the term parent also refers to the parent clock in a PTP context; correct? A The term parent MR. PAK: Objection; vague. THE WITNESS: in this document MR. WONG: Yes.	10 11 12 13 14 15 16 17 18 19 20 21 22	MR. PAK: If you need to take some time to look at the document more closely, you can do that. THE WITNESS: Yes. MR. PAK: Okay. THE WITNESS: I think it it's referring to the parent clock. MR. WONG: Right. Q There's no ambiguity in the context of the IEEE standard that parent refers to parent clock; right? A Yes. Here, it means yeah, it does mean parent clock. Q Okay. So, in the context of the PTP standard, referring to the parent of a clock is
10 11 12 13 14 15 16 17 18 19 20 21	correct? A No. Q And you don't disagree with the definition of clock in the IEEE PTP standard; right? A No, I don't. Q Okay. Now, the term parent also refers to the parent clock in a PTP context; correct? A The term parent MR. PAK: Objection; vague. THE WITNESS: in this document MR. WONG: Yes. THE WITNESS: whenever yeah, a parent	10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. PAK: If you need to take some time to look at the document more closely, you can do that. THE WITNESS: Yes. MR. PAK: Okay. THE WITNESS: I think it it's referring to the parent clock. MR. WONG: Right. Q There's no ambiguity in the context of the IEEE standard that parent refers to parent clock; right? A Yes. Here, it means yeah, it does mean parent clock. Q Okay. So, in the context of the PTP standard, referring to the parent of a clock is referring to the defined term parent clock that we
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Correct? A No. Q And you don't disagree with the definition of clock in the IEEE PTP standard; right? A No, I don't. Q Okay. Now, the term parent also refers to the parent clock in a PTP context; correct? A The term parent MR. PAK: Objection; vague. THE WITNESS: in this document MR. WONG: Yes. THE WITNESS: whenever yeah, a parent clock is used, it means the definition here. MR. WONG: Sure. THE WITNESS: Is that the question?	10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MR. PAK: If you need to take some time to look at the document more closely, you can do that. THE WITNESS: Yes. MR. PAK: Okay. THE WITNESS: I think it it's referring to the parent clock. MR. WONG: Right. Q There's no ambiguity in the context of the IEEE standard that parent refers to parent clock; right? A Yes. Here, it means yeah, it does mean parent clock. Q Okay. So, in the context of the PTP standard, referring to the parent of a clock is referring to the defined term parent clock that we discussed a few minutes ago; correct?
10 11 12 13 14 15 16 17 18 19 20 21 22 23	Correct? A No. Q And you don't disagree with the definition of clock in the IEEE PTP standard; right? A No, I don't. Q Okay. Now, the term parent also refers to the parent clock in a PTP context; correct? A The term parent MR. PAK: Objection; vague. THE WITNESS: in this document MR. WONG: Yes. THE WITNESS: whenever yeah, a parent clock is used, it means the definition here. MR. WONG: Sure.	10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. PAK: If you need to take some time to look at the document more closely, you can do that. THE WITNESS: Yes. MR. PAK: Okay. THE WITNESS: I think it it's referring to the parent clock. MR. WONG: Right. Q There's no ambiguity in the context of the IEEE standard that parent refers to parent clock; right? A Yes. Here, it means yeah, it does mean parent clock. Q Okay. So, in the context of the PTP standard, referring to the parent of a clock is referring to the defined term parent clock that we

	Page 113		Page 115
1	Q Okay. Now, if you look on that same page,	1	Exhibit 93.
2	underneath the heading "PTP Device Attributes," you	2	A (Witness complies.) Okay.
3	see the term "Priority 1"?	3	Q And you see right in the middle of the page,
4	A Yes.	4	it says "word usage"; correct?
5	Q What is a PTP device attribute?	5	A Uh-huh, I see.
6	A It's certain characteristics of a PTP clock.	6	Q And it defines "shall" in 4.2.1.
7	Q That are defined by the IEEE standard;	7	Do you see that?
8	correct?	8	A Yes.
9	A Yes, uh-huh.	9	Q And this is and you you read the entire
10	Q Okay. And these are device attributes that	10	standard before you implemented any of the
11	are mandatory to be supported to comply with the PTP	11	functionality with Cisco's products; right?
12	standard; correct?	12	A Yes.
13	MR. PAK: Objection; calls for expert	13	Q The definition of "shall" well, why don't
14	testimony.	14	you please read the definition of "shall."
15	MR. WONG: Q. If you know.	15	A "The word 'shall,' which is equivalent to 'is
16	A I didn't see anything as mandatory here.	16	required to,' is used to indicate mandatory
17	Q Okay. If you read the description of	17	requirements strictly to be followed in order to
18	priority 1, it says:	18	conform to the standard and from which no deviation is
19	"The attribute priority 1 is used in the	19	permitted."
20	execution of the best master clock algorithm; see	20	Q Okay. And you understood that when you read
21	9.3.2. Lower values take precedence. The	21	the standard; correct?
22	initialization value of priority 1 is specified in a	22	A Yes.
23	PTP profile. The value of priority 1 shall be	23	Q Okay. If you'd turn back to page 53 that we
24	configurable to any value in the range 0 to 255,	24	were just on.
25	unless restricted by limits established by an	25	A (Witness complies.) Right.
	Page 114		Page 116
1	applicable PTP protocol" I'm sorry "PTP	1	Q So, it is a it is a requirement to comply
2	profile."	2	with the standard for there to be a value of
3	Did I read that correctly?	3	priority 1 that is configurable as described here on
4	A Yes.	4	page 53; correct?
5	Q Okay. Now, the the definition says the	5	A Yes.
6	value of priority 1 shall be configurable.	6	MR. PAK: Same and again same objection;
7	Do you see that?	7	calls for expert testimony.
8	A Yes.	8	MR. WONG: Q. If you'd turn I'm sorry.
9	Q "Shall" is a mandatory term in the IEEE	9	And and do you have any disagreements with
10	standard; correct?	10	the description of priority 1 here on page 53?
11	MR. PAK: Same objection; calls for expert	11	A No.
12	testimony.	12	Q Okay. If you'd turn to the next page in
13	THE WITNESS: Would you please rephrase that	13	Exhibit 93.
14	question.	14	A (Witness complies.)
15	MR. WONG: Sure.	15	Q At the top, it has another attribute,
	Q "Shall" is a mandatory term strike that.	16	"priority 2."
16	Q Shah is a mandatory term surke that.	10	
	"Shall" indicates a mandatory requirement in	17	
16	•	1	Do you see that? A Yes.
16 17	"Shall" indicates a mandatory requirement in the IEEE standard; correct?	17	Do you see that? A Yes.
16 17 18	"Shall" indicates a mandatory requirement in	17 18	Do you see that? A Yes. Q And the definition of priority 2 also has a
16 17 18 19	"Shall" indicates a mandatory requirement in the IEEE standard; correct? MR. PAK: Objection; calls for expert	17 18 19	Do you see that? A Yes. Q And the definition of priority 2 also has a sentence that says:
16 17 18 19 20	"Shall" indicates a mandatory requirement in the IEEE standard; correct? MR. PAK: Objection; calls for expert testimony.	17 18 19 20	Do you see that? A Yes. Q And the definition of priority 2 also has a sentence that says: "The value of priority 2 shall be
16 17 18 19 20 21	"Shall" indicates a mandatory requirement in the IEEE standard; correct? MR. PAK: Objection; calls for expert testimony. MR. WONG: Q. And it may help	17 18 19 20 21	Do you see that? A Yes. Q And the definition of priority 2 also has a sentence that says:
16 17 18 19 20 21	"Shall" indicates a mandatory requirement in the IEEE standard; correct? MR. PAK: Objection; calls for expert testimony. MR. WONG: Q. And it may help A I can say only my understanding, that it's	17 18 19 20 21 22	Do you see that? A Yes. Q And the definition of priority 2 also has a sentence that says: "The value of priority 2 shall be configurable to any value in the range 0 to 255,
16 17 18 19 20 21 22	"Shall" indicates a mandatory requirement in the IEEE standard; correct? MR. PAK: Objection; calls for expert testimony. MR. WONG: Q. And it may help A I can say only my understanding, that it's recommending that priority 1 is an attribute, that	17 18 19 20 21 22 23	Do you see that? A Yes. Q And the definition of priority 2 also has a sentence that says: "The value of priority 2 shall be configurable to any value in the range 0 to 255, unless restricted by limits established by an

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 42 of 122

	Page 117		Page 119
1	A Uh-huh, yes.	1	said, as required it's required to be
1 2	· ·	2	
3	Q So the value of priority 2 strike that.	3	interoperable MR. WONG: Okay.
	So it's a requirement to comply with the PTP	1	•
4	standard for the value of priority 2 to be	4	THE WITNESS: at the PlugFest.
5	configurable as described here on page 54; correct?	5	MR. WONG: Q. So, to comply with the PTP
6	MR. PAK: Same objection; calls for expert	6	standard, there have to be configurable device
7	testimony.	7	attributes called priority 1 and priority 2 as
8	THE WITNESS: Yes, it's a parameter.	8	described on pages 53 and 54 of Exhibit 93?
9	MR. WONG: Right.	9	MR. PAK: Objection; calls for expert
10	THE WITNESS: Right.	10	testimony. Objection; vague.
11	Q And that's your understanding, based upon the	11	THE WITNESS: My understanding is these two
12	standard's own definition of what "shall" means within	12	parameters, which needs to be configurable.
13	the document; correct?	13	MR. WONG: Okay.
14	A Yes.	14	Q To comply with the PTP standard?
15	Q Okay. And when you implemented the PTP	15	A Yes.
16	functionality in Cisco's devices, was it your	16	Q Okay. If you'd turn to page 62 of that same
17	intention to comply with the standard with the IEEE	17	document, Exhibit 93. Let me know when you're there.
18	standard marked as Exhibit 93?	18	A (Witness complies.) Yes, I'm on page 63.
19	MR. PAK: Objection; vague.	19	Q 62. I'm sorry.
20	THE WITNESS: Again, there were certain	20	A 62. (Witness complies.) Okay.
21	multiple aspects of it; right?	21	Q Okay. About two-thirds down on that page 62,
22	MR. WONG: Q. But, with respect to the two	22	there is a subheading 7.7.2.3.
23	device attributes that we just discussed, was it your	23	Do you see that?
24	intention to comply with the IEEE standard?	24	A Yes.
25	MR. PAK: Same objection; vague.	25	Q And the text next to that is:
	That the same coperion, rague.		V 1.114 110 Vol. 1.151 Vol. 1.151
	Page 118		Page 120
1	THE WITNESS: I think we intended to make	1	"Sync (multicast) message transmission
2	these two parameters as configurable for PTP clock,	2	interval."
3	So, for that part, yes, the compliance is that we	3	Do you see that?
4	shall make these as configurable values.	4	A Yes.
5	MR. WONG: Q. As required by the IEEE	5	Q Now, the sentence below that says:
6	standard marked as	6	"The port DS.log sync interval shall specify
7	A Yes.	7	the mean time interval between successive sync
8	Q Exhibit 93; correct?	8	messages, i.e., the sync interval, when transmitted as
9	A Yes,	9	multicast messages."
10	Q Is it possible to have vendor	10	Do you see that?
11	interoperability for PTP if you don't comply with the	11	A Yes.
12	PTP standard?	12	Q Did I read that correctly?
13	MR. PAK: Objection; calls for expert	13	A Yes.
14	testimony; vague.	14	Q So the and that sentence, by the way, uses
15	MR. WONG: Q. In your view?	15	the word "shall" again; correct?
16	MR. PAK: Same objections.	16	A Yes.
	THE WITNESS: In my view, the basic external	17	Q That indicates that this is a required a
17	* -	18	requirement of the PTP standard; correct?
17 18	penaviors needs to be consistent to be interoperable		MR. PAK: Objection; calls for expert
18	behaviors needs to be consistent to be interoperable. MR_WONG: O And are the device attributes	19	
18 19	MR. WONG: Q. And are the device attributes	19 20	
18 19 20	MR. WONG: Q. And are the device attributes that we just discussed, priority 1 and priority 2, are	20	testimony.
18 19 20 21	MR. WONG: Q. And are the device attributes that we just discussed, priority 1 and priority 2, are those part of those external behaviors that need to be	20 21	testimony. THE WITNESS: I my understanding is this
18 19 20 21 22	MR. WONG: Q. And are the device attributes that we just discussed, priority 1 and priority 2, are those part of those external behaviors that need to be consistent in order to support interoperability?	20 21 22	testimony. THE WITNESS: I my understanding is this is to be supported to implement a PTP protocol.
18 19 20 21 22 23	MR. WONG: Q. And are the device attributes that we just discussed, priority 1 and priority 2, are those part of those external behaviors that need to be consistent in order to support interoperability? MR. PAK: Same objection; vague.	20 21 22 23	testimony. THE WITNESS: I my understanding is this is to be supported to implement a PTP protocol. MR. WONG: Q. And that understanding is
18 19 20 21 22	MR. WONG: Q. And are the device attributes that we just discussed, priority 1 and priority 2, are those part of those external behaviors that need to be consistent in order to support interoperability?	20 21 22	testimony. THE WITNESS: I my understanding is this is to be supported to implement a PTP protocol.

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 43 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 43 of 122

	Page 121		Page 123
1	A Yes, uh-huh.	1	A Yes.
2	Q That definition of "shall" says that no	2	Q And at the top of Exhibit 95, there is a
3	deviation is permitted; correct?	3	"From" field on the e-mail.
4	If you need to look at page 9, you can	4	Do you see that?
5	confirm that.	5	A Yes.
6	A Right. No deviation of the behavior, I	6	Q And it says "Toni Liu."
7	guess.	7	Do you see that?
8	Q Okay.	8	A Yes.
9	A Right.	9	Q That's you; correct?
10	Q Is that your understanding?	10	A Yes.
11	A Right.	11	Q Your e-mail address while at Cisco was
12	Q So turning so you're still on page 62.	12	liut@cisco.com; correct?
13	The IEEE standard uses the term "sync interval" to	13	A Yes.
14	describe the mean time interval between successive	14	Q Now, was your e-mail address the same as it
15	sync messages; correct?	15	was in your second period at Cisco as it was at
16	A Sync interval as specified in the text here?	16	your first period at Cisco?
17	Q Yes.	17	A It's the same.
18	A Right. Yes.	18	Q It's the same?
19	Q So, do you agree that the IEEE standard	19	A Yes.
20	marked as Exhibit 93 on page 62 defines the sync	20	Q Okay. And this was this e-mail, marked as
21	interval as the mean time interval between successive	21	Exhibit 95, was sent on June 25th, 2008; correct?
22	sync messages when transmitted as multicast messages?	22	A Yes.
23	A Yes.	23	Q Okay. All right. Set that down for a
24	Q Okay. Do you have any disagreements with	24	moment.
25	that definition?	25	MR. WONG: Let's mark this one as Exhibit 96.
	Page 122		Page 124
1	A No.	1	(Document marked Exhibit 96
2	Q Okay. Is that your understanding of what a	2	for identification.)
3	sync interval is in the context of PTP?	3	MR. WONG: This is 96.
4	A Yes.	4	Q The court reporter has marked as Exhibit 96 a
5	MR. PAK: Objection; calls for expert	5	document bearing control Nos. CSICLI00608739 to '740.
6	testimony.	6	Please take a moment to look at this document.
7	MR. WONG: I'm going to mark two exhibits	7	A (Witness complies.) Okay.
8	right now. This one will be what number are we on?	8	Q This is also an e-mail; correct?
9	THE REPORTER: 95.	9	A Yes.
10	MR. WONG: Okay. This one will be 95.	10	Q At the very top, there's a "From" field for
11	(Document marked Exhibit 95	11	this e-mail.
12	for identification.)	12	Do you see that?
13	MR. WONG: 95. I'll do them one at a time.	13	A Yes.
14	Okay.	14	Q It also says it's from liut@cisco.com, Toni
15	Q So the court reporter has marked as	15	Liu?
16	Exhibit 95 the document with control	16	A Yes.
17	Nos. CSICLI00846643, and that's it.	17	Q That's you; correct?
18	A Uh-huh.	18	A True.
19	Q Ms. Liu, do you recognize this document?	19	Q Do you have any doubt that you sent this
	A Yes.	20	e-mail marked as Exhibit 96?
20		21	A I don't have any doubt I sent it.
20 21	O Is this one of the documents that refreshed	1 41	
21	Q Is this one of the documents that refreshed your recollection as to prior events?	22	O Okay. And the exhibit marked as Exhibit 95.
21 22	your recollection as to prior events?	22	Q Okay. And the exhibit marked as Exhibit 95, do you have any doubt that you sent that e-mail?
21	•		Q Okay. And the exhibit marked as Exhibit 95, do you have any doubt that you sent that e-mail? A No.

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 44 of 122

l	Page 137		Page 139
1	AFTERNOON SESSION	1	MR. WONG: Okay.
2	1:41 P.M.	2	Q And you in describing the function
3	1,111 1,111,	3	performed by the "PTP priority 1" command, you
4		4	testified that it configures the priority 1 parameter
5		5	for the PTP clock; correct?
6	THE VIDEOGRAPHER: We are back on the record.	6	A Yes.
7	It is 1:41.	7	Q And the priority 1 parameter for the PTP
8	MR. WONG: Q. So, Ms. Liu, before the lunch	8	clock, that's the same priority 1 parameter that we
9	break, we talked about the five commands that are	9	discussed in Exhibit 93; correct?
10	associated with you in Exhibit 92.	10	A When you say "parameter," I think they are a
11	A Yes.	11	little different in the CLI and the spec.
12	Q One of the commands is "PTP priority 1."	12	Q How are they different?
13	A Yes.	13	A The in the spec, it's the attribute of the
14	Q Do you see that?	14	clock; right? When I say parameter, I mean the in
15	A Uh-huh.	15	the context of the CLI command is a parameter.
16	Q What is the function that the "PTP	16	Q Oh, I see.
17	priority 1" command performs?	17	So so the word priority 1 in the "PTP
18	A It configures the priority 1 parameter for	18	priority 1" CLI command is a parameter of the command?
19	the PTP clock.	19	A Yes.
20	Q Okay. And when you say "for the PTP clock,"	20	Q That's what you mean by
21	you mean PTP as defined by the IEEE standard; right?	21	A Right.
22	A Yes.	22	Q parameter?
23	Q You're not talking about a different PTP	23	A Right.
24	that's separate from the IEEE standard; right?	24	Q Okay. Now, does the priority 1 parameter in
25	A No.	25	the CLI command "PTP priority 1," does that refer to
			110 021 0011111111 1 1 1 priority 1, 4010 11111 1 1 1 1
BELLOON BELLOONS, THEORYTC	Page 138		Page 140
1	Q Okay. And the PTP in the command "PTP	1	the priority 1 attribute in the IEEE standard marked
2	priority 1" refers to the IEEE standard; correct?	2	as Exhibit 93?
3	MR. PAK: Objection; vague.	3	MR. PAK: Objection; vague.
4	THE WITNESS: It refers to, yeah, PTP.	4	THE WITNESS: Yes. I think I chose it for
5	MR. WONG: Q. It refers to the IEEE PTP	5	the intention to mean the priority 1 attribute of the
6	standard that we marked as Exhibit 93; correct?	6	clock.
7	A Yes.	7	MR. WONG: Q. And is your answer the same
8	Q Okay. And the use of the word PTP in all	8	for the command "PTP priority 2"?
9	five of the commands that are associated with you in	9	Is the priority 2 command parameter does
10	Exhibit 92, they all come from the IEEE standard	10	that refer to the priority 2 attribute in the IEEE
11	marked as Exhibit 93; correct?	11	standard marked as Exhibit 93?
12	MR. PAK: Objection; vague; mischaracterizes	12	MR. PAK: Same objection.
13	the witness' testimony.	13	THE WITNESS: It's referring to the same
14	THE WITNESS: You mean the PTP	14	that attribute, yes.
15	MR. WONG: Q. Let me ask the question	15	MR. WONG: Q. That attribute in the IEEE
16	A word in the command?	16	standard?
17	Q Yes.	17	A In the IEEE standard, yes.
	Let me ask a clean question.	18	Q Okay. And you knew about the priority 1 and
18	The use of the word PTP in all five of the	19	priority 2 attributes in the IEEE standard before you
18 19	The use of the word i ii in this iive of the	0.0	started adding the "PTP priority 1" and "PTP
	commands that are associated with you in Exhibit 92	20	
19		20 21	priority 2" commands to the iOS software; correct?
19 20	commands that are associated with you in Exhibit 92		
19 20 21	commands that are associated with you in Exhibit 92 A Right.	21	priority 2" commands to the iOS software; correct?
19 20 21 22	commands that are associated with you in Exhibit 92 A Right. Q that word came from the PTP IEEE standard	21 22	priority 2" commands to the iOS software; correct? A Yes, I read the spec.

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 45 of 122

	Page 141		Page 143
1	routing software; right?	1	today
2	A Yes.	2	Q Okay.
3	Q How long did it take you to come up with the	3	A that I saw.
4	"PTP priority 1" command?	4	Q So the
5	A I don't remember how long it took for me to	5	A Yeah.
6	come up with the list of CLI commands.	6	Q So the same e-mails that were marked as
7	Q Okay. I'm just asking about the the one	7	exhibits in today's deposition are the ones that
8	command, "PTP priority 1."	8	refreshed your memory?
9	A Right.	9	A Right.
10	Q Did did that take you an hour to come up	10	Q Okay. How long did it take you to write
11	with that command?	11	the strike that.
12	MR. PAK: Objection; vague.	12	Did you write the implementing source code
13	THE WITNESS: You mean just to decide on the	13	for the "PTP priority 1" command
14	syntax of the command?	14	A I did write the source code for implementing
15	MR. WONG: On the two words in the command.	15	this command.
16	That's right.	16	Q How long did it take you to write the source
17	Q How long did it take you to decide on the	17	code for the "PTP priority 1" command?
18	two words, "PTP priority 1," in that command?	18	A I don't remember any time frame on this.
19	A I don't remember.	19	It's it's been a while.
20	Q Did it take you more than a day?	20	Q Do you know if it took you longer to write
21	MR. PAK: Objection; vague.	21	the implementing source code for the "PTP priority 1"
22	THE WITNESS: Maybe not. I don't recall the	22	command than it took you to choose the two words "PTP
23	details of of this level.	23	priority 1"?
24	MR. WONG: Okay.	24	MR. PAK: Objection; vague.
25	Q Do you	25	THE WITNESS: I would think it took longer to
and the house projection and a particular material			Down 1444
1	Page 142	1	Page 144
1 2	A How long, yeah.	1	implement it.
3	Q Are you done with your answer?A Right.	2 3	MR, WONG: Q. Would your answer be the same for the other four commands that are associated with
4	Yes, I'm done with my answer.	4	you in Exhibit 92?
5	Q Okay. Do you know if it took you just a few	5	A I know I gave some thought on these commands
6	minutes?	6	when I came up with them. But particular to how long
7	MR. PAK: Same objections.	7	it took for me to do any of these, that's the part I
8	THE WITNESS: I don't recall the details of	8	don't remember anymore.
9	how long it took.	9	But I did remember it's among all of the
10	MR. WONG: Okay.	10	attributes of or things mentioned in the spec, I
11	Q So, you don't know whether it took you a few	11	chose a particular subset of things which I think I
12	minutes or more than a day to decide upon the	12	should provide a CLI command for user to configure
13	two words "PTP priority 1"; is that correct?	13	them,
14	A I don't recall the details on that.	14	So that's the that's I think it's part
15	Q Okay. And are are there any documents	15	of the decision-making, and that could have taken some
16	that would refresh your memory of how long it took you	16	time. But how long I took, that's the part I don't
17	to come up with the "PTP priority 1" command?	17	remember now.
18	A I don't see anything in the conversation	18	Q Okay. And my question was more about your
	here. So the e-mail here was after I came up with the	19	testimony about the "PTP priority 1" command, where
19		20	you said it took longer to write the implementing code
19 20	command,	20	
	-	21	for that command than it did to choose the two words
20	command.	ŧ	for that command than it did to choose the two words in the command.
20 21	command, Q Okay. Were there any other e-mails that you	21	1)
20 21 22	command. Q Okay. Were there any other e-mails that you reviewed in preparation for this deposition that	21 22	in the command.
20 21 22 23	command. Q Okay. Were there any other e-mails that you reviewed in preparation for this deposition that refreshed your recollection about the five commands	21 22 23	in the command. Do you do

THE WITNESS: That's yeah, I can always B say that's likely true. MR. WONG: Okay. O And you say "it's likely true" just based upon your experience programming? A It's yeah, it's just based on my a that year of programming? A It's yeah, it's just based on my a experience working with CLI commands. O What type of programming is required to implement a command like "PTP priority !"? A It's a C programming that we were using. So for the in general, you do the front end of interface, so you come up with the command. But then you then you spend time implementing hooking it up to the back-end code. A Was a was thing as the implementing source code? A Yes. That's the term that I was using. Is that the same thing, in your Page 146 Page 146 Page 146 Page 146 Page 146 A Ne, Naris what I'm asking. A Yes. O And the name hing in received, something needs to happen based on what has been configured as being specified as the parameter. So that's the interface I was referring to, that I hook up to the back-end behavior of the clock. Q And the back-end behavior of the clock. Q And the back-end behavior of the clock. Q And the back-end behavior of for each command that you are associated with in Eshibit 92, did you write that source code? A Right. A Right. A Right. I that we discussed in Exhibit 92; A He WITNESS: I think that the same sync interval that we discussed in Exhibit 92; A Yes. O And the part of the clock, "you mean the sync interval" that we discussed in Exhibit 92; A Yes. I have discussed in Exhibit 93? A Yes. O And by "that part of the clock, "you mean the sync interval" that we discussed in Exhibit 93? A Yes. I have discussed in Exhibit 93? A Yes. O And when provided the took. A Right. A Right. O Sub the sync interval that de discussed in Exhibit 93? A Yes. I have discussed in Exhibit 93? A Yes. O Now, you chose the term priority 1 because priority 1 is an attribute that's in the IEEE standard; right? Command? A When I when I chose to use prior		Page 145		Page 147
2 Q Okay. 3 A - that's likely true. 4 Q So that's likely true for the other four 5 commands as well? 6 MR, PAK: Objection; vague. 7 THE WITNESS: That's yeah, I can always 8 say that's likely true based 10 Q And you say "it's likely true" just based 11 upon your experience programming? 12 A If's yeah, it's just based on my 13 experience working with CLI commands. 14 Q What type of programming is required to implement a command like "TPI priority I"? 15 A If's - a C programming that we were using. So for the in general, you do the front end of linterface, so you come up with the command. But then you then you spend time implementing hooking it up to the back-end code. 22 And when you say "back-end code," is that the same thing as the implementing source code? 24 That's the term that I was using. 25 Is that the same thing, in your Page 146 1 understanding? 2 A Yes. 3 There so, when the CLI command is received, something needs to happen based on what has been configured as being specified as the parameter. So that's the interface to was referring to, that I hook up to the back-end behavior of the clock. 3 Q And the back-end behavior of the clock. 4 Q And the back-end behavior of the clock. 5 Q Individually the priority I shade of the priority I start that the source code? 11 A I did write the source code? 12 Q Did you have anyone else's help in writing the source code for those five commands associated with you in Exhibit 92? 13 A No. I wrote all of them. 15 A No. I wrote all of them.	1	A Yes. I I agree	1	O Okay, What function does the "PTP sync
A - that's likely true. Q So that's likely true for the other four commands as well? MR. PAK: Objection; vague. MR. PAK: Objection; vague. MR. WONG: Okay. MR. WONG: Okay. A Right. Q And you say "fits likely true" just based upon your experience programming? A Ris - yeah, it's just based on my that they pe of programming is required to implement a command like "PTP priority 1"? A Ris a C programming is required to implement a command like "PTP priority 1"? A Ris a C programming that were using. So for the in general, you do the front end of interface, so you come up with the command. But then you then you spend time implementing booking it up to the back-end code. Q Excuse me. And when you say "back-end code," is that the same thing, in your Page 146 understanding? A Yes. There so, when the CLJ command is received, something needs to happen based on what has been configured as being specified as the parameter. So that's the interface I was referring to, that I hook up to the back-end behavior of reach command that you are associated with in Exhibit 92, did you write that source code? A Id did write the source code. Q And the back-end behavior of reach command that you are associated with in Exhibit 92, did you with the source code for those five commands associated with you in Exhibit 92? A No. I wrote all of them.	2	2	i	
the master. Q And do you recall earlier we were looking at the IEEE standard marked Exhibit 93 and a term calle sync interval, that the "PTP sync interval at the buscused in Exhibit 92. MR. PAK: Objection; vague. 11 12 A Yes. 13 The "yeah, it's just based on my 14 A Yes. 15 Q And by "that part of the clock," you mean the sync interval attribute defined by the IEEE PTP standard; right? A Yes. 16 A Yes. Q Now, you chose the term priority 1 because priority 1 is an attribute that's in the IEEE standard; right? A Yes. 17 A Yes. 18 A Right. Q And by "that part of the clock," you mean the sync interval attribute defined by the IEEE standard; right? A Yes. 19 A Yes. 10 A Yes. Yes, that's what I'm asking. A Yes. When I chose the word, I meant to configure this attribute for the clock, you're referring to the priority 1 attri	3		I .	
5	4		4	
6 MR. PAK: Objection; vague. 7	5		5	Q And do you recall earlier we were looking at
THE WITNESS: That's yeah, I can always say that's likely true. MR. WONG: Okay. O And you say "it's likely true" just based upon your experience programming? A It's yeah, it's just based on my a cexperience working with CLI commands. A It's yeah, it's just based on my a cexperience working with CLI commands. O What type of programming is required to implement a command like "PTP priority I"? A It's a C programming that we were using. So for the in general, you do the front end of interface, so you come up with the command. But then you then you spend time implementing hooking it up to the back-end code. And when you say "back-end code," is that the same thing, in your Page 146 La understanding? A Yes. There so, when the CLI command is received, something needs to happen based on what has been configured as being specified as the parameter. So that's the interface I was referring to, that I hook up to the back-end behavior of the clock. Q And the back-end behavior of fro each command that you are associated with in Exhibit 92; did you write that source code? A Ne. I wrote all of them. THE WITNESS: I think that the "PTP sync interval" command refers to, the same sync interval that we discussed in Exhibit 92? THE WITNESS: I think that the same sync interval that we discussed in Exhibit 92? A Yes. A Right. C Junderslanding? THE WITNESS: I think that the ediscused in Exhibit 93? THE WITNESS: I think that was using. A Yes. A When I when I clock, You're referring to the priority I attribute for the clock, You're referring to the priority I attribute for the clock, You're referring to the priority I attribute defined by the IEEE standard, right? C Yes, that's what I'm asking. A Yes. A Yes. A When I when I chose to use priority I; right? A Yes. A Yes. A Yes. A Yes. A Yes. A Yes. A When I when I chose to use priority I; right? A Yes. A Yes. A	6	MR. PAK: Objection; vague.		the IEEE standard marked Exhibit 93 and a term called
say that's likely true. MR. WONG: Okay. O And you say "it's likely true" just based 11 upon your experience programming? 12 A It's - yeah, it's just based on my 13 experience working with CLI commands. 14 O What type of programming is required to implement a command like "PTP priority I"? 16 A It's a C programming that we were using. So for the in general, you do the front end of interface, so you come up with the command. But then you then you spend time implementing hooking it up to the back-end code. 21 Q Excuse me. 22 And when you say "back-end code," is that the same thing, in your Page 146 1 understanding? A Yes. 3 There so, when the CLI command is received, something needs to happen based on what has been configured as being specified as the parameter. So that's the interface I was referring to, that I hook up to the back-end behavior of the clock. Q And the back-end behavior of the clock. Q And the back-end behavior for each command that you are associated with you in Exhibit 92? A No. I wrote all of them. 8 A Right. Q Is the sync interval, that the "PTP sync interval was usine; interval extractive mean and refers to, the same sync interval that we discussed in Exhibit 93? MR. PAK: Objection; vague. THE WITNESS: I think that was this command was used was defined to be used to configure that part of the clock. MR. WONG: Right. A Yes. Q And by "that part of the clock. MR. WONG: Right. A Yes. Q Now, you chose the term priority 1 because priority 1 is an attribute defined by the IEEE PTP standard; right? MR. PAK: Objection; vague as the interface I was referring to, that 1 Fage 146 Page 146 Page 146 Q Yes, that's what I'm asking. A Yes. Q Yes, that's what I'm asking. A Yes. Q Yes, that's what I'm asking. A Yes. When I chose the word, I meant to configure this attribute for the clock, That was true. The priority 1 is an attribute that's defined in the IEEE standard; right? Q Yes, that's what I'm asking. A Yes. Q And the back-end behavior of the clock.	7		7	sync interval in there?
10 Q And you say "it's likely true" just based 11 upon your experience programming? 12 A It's yeah, it's just based on my 13 experience working with CLI commands. 14 Q What type of programming is required to 15 implement a command like "PTP priority 1"? 16 A It's a C programming that we were using. So 17 for the in general, you do the front end of 18 interface, so you come up with the command. But then 19 you then you spend time implementing hooking it up 20 to the back-end code. 21 Q Excuse me. 22 And when you say "back-end code," is that the 23 same thing as the implementing source code? 24 That's the term that I was using. 25 Is that the same thing, in your Page 146 1 understanding? 2 A Yes. 3 There so, when the CLI command is 4 received, something needs to happen based on what has been configured as being specified as the parameter. 5 So that's the interface I was referring to, that I have discussed in Exhibit 93? 16 MR. PAK: Objection; vague. 17 Command refers to, the same sync interval that we discussed in Exhibit 93? 18 MR. PAK: Objection; vague. 19 MR. Won'G: Right. 10 Q And by "that part of the clock." You mean the sync interval attribute defined by the IEEE PTP standard; right? 20 A Yes. 21 Q Now, you chose the term priority I because priority I is an attribute that's in the IEEE standard; right? 22 MR. WONG: Q. When you 23 A When I - when I chose to use priority I; right? 24 A Yes. 25 MR. WONG: Q. When you 26 A Yes, When I chose the word, I meant to configure this attribute for the clock, That was true. 26 A 1 did write the source code. 27 Q Did you have anyone else's help in writing the source code for those five commands associated with you in Exhibit 92? 26 A No. I wrote all of them. 27 A No. I wrote all of them.	8	say that's likely true.	8	A Right.
10 Q And you say "it's likely true" just based 11 upon your experience programming? 12 A It's - yeah, it's just based on my 13 experience working with CLI commands. 14 Q What type of programming is required to 15 implement a command like "PTP priority 1"? 16 A It's a C programming that we were using. So 17 for the in general, you do the front end of 18 interface, so you come up with the command. But then 19 you then you spend time implementing hooking it up 20 to the back-end code. 21 Q Excuse me. 22 And when you say "back-end code," is that the 23 same thing as the implementing source code? 24 That's the term that I was using. 25 Is that the same thing, in your Page 146 1 understanding? 2 A Yes. 3 There so, when the CLI command is 1 received, something needs to happen based on what has 2 been configured as being specified as the parameter. 2 So that's the interface I was referring to, that I 2 hook up to the back-end behavior of the clock. 3 Q And the back-end behavior of the clock. 4 Q Did you have anyone else's help in writing 3 the source code of those five commands associated 4 with you in Exhibit 92? 4 No. I wrote all of them. 10 interval" command refers to, the same sync interval 4 that we discussed in Exhibit 93? THE WITNESS: I think that was this command was used was defined to be used to configure that part of the clock. MR. WONG: Rjeht. Q Now, you chose the term priority 1 because priority 1 is an attribute that's in the IEEE standard; right? Command? MR. PAK: Objection; vague. Page 144 Command refers to, the same sync interval that we discussed in Exhibit 93? A Yes. Q Now, you chose the term priority 1 because priority 1 is an attribute that's in the IEEE 23 standard; right? Command? MR. WONG: RJENE A Yes. A When I - when I chose to use priority 1; right? Q Yes, that's what I'm asking. A Yes. Q And the back-end behavior of the clock. A Yes. Q Did you have anyone else's help in writing the source code for those five commands associated with you in Exhibit 92? A No.	9	MR. WONG: Okay.	9	
11 upon your experience programming? 12 A It's yeah, it's just based on my 13 experience working with CLI commands. 14 Q What type of programming is required to 15 implement a command like "PTP priority I"? 16 A It's a C programming that we were using. So 17 for the in general, you do the front end of 18 interface, so you come up with the command. But then 19 you then you spend time implementing booking it up 20 to the back-end code. 21 Q Excuse me. 22 And when you say "back-end code," is that the 23 same thing as the implementing source code? 24 That's the term that I was using. 25 Is that the same thing, in your Page 146 1 understanding? 2 A Yes. 3 There so, when the CLI command is 4 received, something needs to happen based on what has 5 been configured as being specified as the parameter. 6 So that's the interface I was referring to, that I 7 hook up to the back-end behavior of the clock. 8 Q And the back-end behavior for each command 9 that you are associated with in Exhibit 92, did you write that source code? 11 A I did write the source code. 12 Q Did you have anyone else's help in writing 13 the source code for those five commands associated with you in Exhibit 92? 15 A No. I wrote all of them. 16 Inthe twe discussed in Exhibit 93? MR. PAK: Objection; vague. 16 MR. WONG: Right. 17 A Wen I the clock. 18 MR. WONG: Right. 19 A Yes. 20 And wor anyou chose the term priority I because priority I is an attribute defined by the IEEE PTP standard; right? 2 A Yes. 2 MR. PAK: Objection; vague. 2 THE WITNESS: You mean the sync interval attribute defined by the IEEE PTP standard; right? 2 A Yes. 3 There so, when the CLI command is 4 received, something needs to happen based on what has 5 been configured as being specified as the parameter. 6 So that's the interface I was referring to, that I 6 hook up to the back-end behavior of the clock. 8 Q And the back-end behavior for each command that you are associated with in Exhibit 92; 10 Q Did you have anyone else's help in writing 11 that the discussed i	10	Q And you say "it's likely true" just based	10	
2	11	upon your experience programming?	11	that we discussed in Exhibit 93?
14 Q What type of programming is required to implement a command like "PTP priority 1"? 15	12	A It's yeah, it's just based on my	12	MR. PAK: Objection; vague.
implement a command like "PTP priority 1"? A It's a C programming that we were using. So for the in general, you do the front end of interface, so you come up with the command. But then interface, so you come up with the command. But then you then you spend time implementing hooking it up to the back-end code. Q Excuse me. And when you say "back-end code," is that the same thing as the implementing source code? And when you say "back-end code," is that the same thing as the implementing source code? That's the term that I was using. Is that the same thing, in your Page 146 Page 146 Page 146 Page 146 Page 146 Page 146 Page 146 Page 146 Page 146 Page 146 A Yes. WR. PAK: Objection; vague. THE WITNESS: You mean when I wrote the Page 146 A When I when I chose to use priority 1; right? Q Yes, that's what I'm asking. A Yes. A Yes. Q And the back-end behavior of the clock. A Yes. A It's the interface I was referring to, that I hook up to the back-end behavior of the clock. A It's the interface I was referring to, that I way un are associated with in Exhibit 92, did you write that source code? A I did write the source code. A I did write the source code. A I did write the source code. A I did write the source code. A I did write the source code. A I did write the source code. A I did write the source code. A I did write the source code. A I did write the source code. A I did write the source code. A No. I wrote all of them.	13	experience working with CLI commands.	13	THE WITNESS: I think that was this
16 A It's a C programming that we were using. So 17 for the — in general, you do the front end of 18 interface, so you come up with the command. But then 19 you — then you spend time implementing hooking it up 20 to the back-end code. 21 Q Excuse me. 22 And when you say "back-end code," is that the 23 same thing as the implementing source code? 24 That's the term that I was using. 25 Is that the same thing, in your 26 In understanding? 27 A Yes. 28 A Yes. 29 Page 146 20 Understanding? 20 In the back-end code when the CLI command is 29 received, something needs to happen based on what has been configured as being specified as the parameter. 29 So that's the interface I was referring to, that I hook up to the back-end behavior of the clock. 30 Q And the back-end behavior of the clock. 41 Q Now, you chose the term priority I because priority I is an attribute that's in the IEEE standard; right? 42 MR. PAK: Objection; vague. 43 There — so, when the CLI command is 44 received, something needs to happen based on what has been configured as being specified as the parameter. 45 So that's the interface I was referring to, that I hook up to the back-end behavior of the clock. 46 Q And the back-end behavior of the clock. 47 Configure this attribute for the clock. That was true. 48 Q And the back-end behavior of the clock. 48 Q And the back-end behavior for each command that you are associated with in Exhibit 92, did you write that source code? 40 With you in Exhibit 92? 41 A Yes. 41 A Yes. 42 A Yes. 43 A Yes. 44 Command? 45 Command? 45 Command? 46 Command? 47 Command? 48 There — in general, you have anyone else's help in writing the source code for those five commands associated with you in Exhibit 92? 48 A Yes. 49 And your answer is the same for the priority 2 attribute defined in the IEEE standard, correct, with respect to the PTP priority 2 command? 40 A No. I wrote all of them.	14	Q What type of programming is required to	14	command was used was defined to be used to
for the in general, you do the front end of interface, so you come up with the command. But then you then you spend time implementing hooking it up to the back-end code. Q Excuse me. And when you say "back-end code," is that the same thing as the implementing source code? That's the term that I was using. Is that the same thing, in your Page 146 Page 146 Revived, something needs to happen based on what has been configured as being specified as the parameter. So that's the interface I was referring to, that I hook up to the back-end behavior of the clock. Q And the back-end behavior of reach command that you are associated with you in Exhibit 92? A No. I wrote all of them. Page 146 Revis. Q And by "that part of the clock," you mean the sync interval attribute defined by the IEEE PTP standard; right? A Yes. Q Now, you chose the term priority I because priority I is an attribute that's in the IEEE standard; right? A Yes. Revis. Q Now, you chose the term priority I because priority I is an attribute that's in the IEEE standard; right? A Yes. Revis. Q Now, you chose the term priority I because priority I is an attribute that's in the IEEE standard; right? A Yes. Revis. Q Now, you chose the term priority I because priority I is an attribute that's in the IEEE standard; right? A Yes. Revis. Q Now, you chose the term priority I because priority I is an attribute that's in the IEEE standard; right? Command? A When I when I chose to use priority I; right? A Yes. A Yes. A Yes. A Yes, When I chose to use priority I; right? A Yes. A Yes, When I chose the word, I meant to configure this attribute for the clock. That was true. A Yes.	15	implement a command like "PTP priority 1"?	15	configure that part of the clock.
interface, so you come up with the command. But then you then you spend time implementing hooking it up to the back-end code. 21 Q Excuse me. 22 And when you say "back-end code," is that the same thing as the implementing source code? 23 Same thing as the implementing source code? 24 That's the term that I was using. 25 Is that the same thing, in your 26 Page 146 1 Understanding? 2 A Yes. 3 There so, when the CLI command is received, something needs to happen based on what has been configured as being specified as the parameter. 4 So that's the interface I was referring to, that I hook up to the back-end behavior of the clock. 8 Q And the back-end behavior of re each command that you are associated with in Exhibit 92, did you write that source code? 10 With you in Exhibit 92? 11 A No. I wrote all of them. 18 sync interval attribute defined by the IEEE PTP standard; right? 20 A Yes. 21 Q Now, you chose the term priority I because priority I is an attribute that's in the IEEE standard; right? 22 ARD WR. PAK: Objection; vague. 23 THE WITNESS: You mean when I wrote the many one when I wrote the many one when I wrote the standard; right? 24 MR. WONG: Q. When you 25 MR. WONG: Q. When you 36 A When I when I chose to use priority I; right? 26 Q Yes, that's what I'm asking. 37 A Yes. 38 Q And the back-end behavior for each command that you are associated with in Exhibit 92, did you write that source code? 38 Q And the back-end behavior for each command that you are associated with in Exhibit 92, did you write that source code? 38 There so, when the CLI command associated with in Exhibit 92? 40 A Yes. 41 A Yes. 51 A Yes. 52 A Yes. 53 A When I when I chose to use priority I; right? 54 Command? 55 C Yes, that's what I'm asking. 66 A Yes. When I chose the word, I meant to configure this attribute for the clock. That was true. 67 Page 144: 68 Q And the back-end behavior for each command that you are associated with in Exhibit 92. 69 And the back-end behavior o	16	A It's a C programming that we were using. So	16	MR. WONG: Right.
you then you spend time implementing hooking it up to the back-end code. Q Excuse me. And when you say "back-end code," is that the same thing as the implementing source code? That's the term that I was using. Is that the same thing, in your Page 146 Read on the fact of the clock. There so, when the CLI command is received, something needs to happen based on what has been configured as being specified as the parameter. So that's the interface I was referring to, that I hook up to the back-end behavior of the clock. Q And the back-end behavior of or each command that you are associated with in Exhibit 92, did you write that source code? A Yes. Yes. RR. WONG: Q. When you A When I when I chose to use priority 1; right? Q Yes, that's what I'm asking. A Yes. Q And the back-end behavior of the clock. Q And the back-end behavior for each command write that source code? A I did write the source code. Did you have anyone else's help in writing the source code for those five commands associated with you in Exhibit 92? A No. I wrote all of them.	17	for the in general, you do the front end of	17	Q And by "that part of the clock," you mean the
to the back-end code. 21 Q Excuse me. 22 And when you say "back-end code," is that the 23 same thing as the implementing source code? 24 That's the term that I was using. 25 Is that the same thing, in your 26 Page 146 27 Page 146 28 Page 146 Page 146	18	interface, so you come up with the command. But then	18	sync interval attribute defined by the IEEE PTP
21 Q Excuse me. 22 And when you say "back-end code," is that the 23 same thing as the implementing source code? 24 That's the term that I was using. 25 Is that the same thing, in your Page 146 P	19	you then you spend time implementing hooking it up	19	standard; right?
And when you say "back-end code," is that the same thing as the implementing source code? That's the term that I was using. Is that the same thing, in your Page 146 Page 146 Page 146 Page 146 Page 146 Page 146 Received, something needs to happen based on what has been configured as being specified as the parameter. So that's the interface I was referring to, that I hook up to the back-end behavior of the clock. Q And the back-end behavior for each command that you are associated with in Exhibit 92, did you write that source code? A I did write the source code. A No. I wrote all of them.	20	to the back-end code.	20	A Yes.
same thing as the implementing source code? That's the term that I was using. Is that the same thing, in your Page 146 Page 148 Page	21	Q Excuse me.	21	Q Now, you chose the term priority 1 because
That's the term that I was using. Is that the same thing, in your Page 146 Page 146 Page 146 Page 146 Page 146 Page 146 Index standing? A Yes. There so, when the CLI command is received, something needs to happen based on what has been configured as being specified as the parameter. So that's the interface I was referring to, that I fook up to the back-end behavior of the clock. A Q And the back-end behavior for each command with that you are associated with in Exhibit 92, did you write that source code? A I did write the source code. A No. I wrote all of them. Page 146 Page 148 Page 149 RR. WONG: Q. When you A When I when I chose to use priority 1; right? Q Yes, that's what I'm asking. A Yes. When I chose the word, I meant to configure this attribute for the clock. That was true. Q And this attribute for the clock, you're referring to the priority 1 attribute that's defined in the IEEE standard; right? A Yes.	22	And when you say "back-end code," is that the	22	priority 1 is an attribute that's in the IEEE
Page 146 Page 146 Page 146 Page 146 Page 147 command? MR. WONG: Q. When you MR. Woll is attribute for the clock, you're referring to the priority 1 attribute that's defined in the IEEE standard; right? A Yes. Q Did you have anyone else's help in writing 12 A Yes. Q And your answer is the same for the priority 2 attribute defined in the IEEE standard; correct, with respect to the PTP priority 2 command?	23		23	standard; right?
Page 146 1 understanding? 2 A Yes. 3 There so, when the CLI command is 4 received, something needs to happen based on what has 5 been configured as being specified as the parameter. 6 So that's the interface I was referring to, that I 7 hook up to the back-end behavior of the clock. 8 Q And the back-end behavior for each command 9 that you are associated with in Exhibit 92, did you 10 write that source code? 11 A I did write the source code. 12 Q Did you have anyone else's help in writing 13 A No. I wrote all of them. Page 148 command? 1 command? A When I when I chose to use priority 1; right? Q Yes, that's what I'm asking. A Yes. When I chose the word, I meant to configure this attribute for the clock. That was true. Q And this attribute for the clock, you're referring to the priority 1 attribute that's defined in the IEEE standard; right? A Yes. Q And your answer is the same for the priority 2 attribute defined in the IEEE standard, correct, with respect to the PTP priority 2 command?			24	
1 understanding? 2 A Yes. 3 There so, when the CLI command is 4 received, something needs to happen based on what has 5 been configured as being specified as the parameter. 6 So that's the interface I was referring to, that I 7 hook up to the back-end behavior of the clock. 8 Q And the back-end behavior for each command 9 that you are associated with in Exhibit 92, did you 9 Q And this attribute for the clock, you're 10 write that source code? 11 A I did write the source code. 12 Q Did you have anyone else's help in writing 13 the source code for those five commands associated 14 with you in Exhibit 92? 15 A No. I wrote all of them. 1 command? 2 MR. WONG: Q. When you 3 A When I when I chose to use priority 1; right? 6 A Yes, When I chose the word, I meant to configure this attribute for the clock. That was true. 9 Q And this attribute for the clock, you're referring to the priority 1 attribute that's defined in the IEEE standard; right? 1 A Yes. 1 Q And your answer is the same for the priority 2 attribute defined in the IEEE standard, correct, with respect to the PTP priority 2 command?	25	Is that the same thing, in your	25	THE WITNESS: You mean when I wrote the
A Yes. There so, when the CLI command is received, something needs to happen based on what has been configured as being specified as the parameter. So that's the interface I was referring to, that I hook up to the back-end behavior of the clock. Q And the back-end behavior for each command that you are associated with in Exhibit 92, did you write that source code? A I did write the source code. Q Did you have anyone else's help in writing the source code for those five commands associated with you in Exhibit 92? A No. I wrote all of them. MR. WONG: Q. When you A When I when I chose to use priority 1; right? Q Yes, that's what I'm asking. A Yes. When I chose the word, I meant to configure this attribute for the clock. That was true. Q And this attribute for the clock, you're referring to the priority 1 attribute that's defined in the IEEE standard; right? A Yes. Q And your answer is the same for the priority 2 attribute defined in the IEEE standard, correct, with respect to the PTP priority 2 command?	75 35 55 70 70 70 70 70 60 70 70 80 70 70 70 70 70 70 70 70 70 70 70 70 70	Page 146		Page 148
There so, when the CLI command is received, something needs to happen based on what has been configured as being specified as the parameter. So that's the interface I was referring to, that I hook up to the back-end behavior of the clock. Q And the back-end behavior for each command that you are associated with in Exhibit 92, did you write that source code? A I did write the source code. Q Did you have anyone else's help in writing the source code for those five commands associated with you in Exhibit 92? A No. I wrote all of them. A When I when I chose to use priority 1; right? Q Yes, that's what I'm asking. A Yes. When I chose the word, I meant to configure this attribute for the clock. That was true. Q And this attribute for the clock, you're referring to the priority 1 attribute that's defined in the IEEE standard; right? A Yes. Q And your answer is the same for the priority 2 attribute defined in the IEEE standard, correct, with respect to the PTP priority 2 command?	1	understanding?	1	command?
received, something needs to happen based on what has been configured as being specified as the parameter. So that's the interface I was referring to, that I hook up to the back-end behavior of the clock. Q And the back-end behavior for each command that you are associated with in Exhibit 92, did you write that source code? A I did write the source code. Q Did you have anyone else's help in writing the source code for those five commands associated with you in Exhibit 92? A No. I wrote all of them. 4 right? Q Yes, that's what I'm asking. A Yes. When I chose the word, I meant to configure this attribute for the clock. That was true. Q And this attribute for the clock, you're referring to the priority 1 attribute that's defined in the IEEE standard; right? A Yes. Q And your answer is the same for the priority 2 attribute defined in the IEEE standard, correct, with respect to the PTP priority 2 command?	2	A Yes,	2	MR. WONG: Q. When you
been configured as being specified as the parameter. So that's the interface I was referring to, that I hook up to the back-end behavior of the clock. Q And the back-end behavior for each command that you are associated with in Exhibit 92, did you write that source code? A I did write the source code. Q Did you have anyone else's help in writing the source code for those five commands associated with you in Exhibit 92? A No. I wrote all of them. So that's what I'm asking. A Yes. A Yes. When I chose the word, I meant to configure this attribute for the clock. That was true. Q And this attribute for the clock, you're referring to the priority 1 attribute that's defined in the IEEE standard; right? A Yes. Q And your answer is the same for the priority 2 attribute defined in the IEEE standard, correct, with respect to the PTP priority 2 command?	3	There so, when the CLI command is	3	A When I when I chose to use priority 1;
So that's the interface I was referring to, that I hook up to the back-end behavior of the clock. Q And the back-end behavior for each command that you are associated with in Exhibit 92, did you write that source code? A I did write the source code. Q Did you have anyone else's help in writing the source code for those five commands associated with you in Exhibit 92? A No. I wrote all of them. A Yes. When I chose the word, I meant to configure this attribute for the clock. That was true. Q And this attribute for the clock, you're referring to the priority 1 attribute that's defined in the IEEE standard; right? A Yes. Q And your answer is the same for the priority 2 attribute defined in the IEEE standard, correct, with respect to the PTP priority 2 command?	4		4	right?
hook up to the back-end behavior of the clock. Q And the back-end behavior for each command that you are associated with in Exhibit 92, did you write that source code? A I did write the source code. Q Did you have anyone else's help in writing the source code for those five commands associated with you in Exhibit 92? A No. I wrote all of them. 7 configure this attribute for the clock. That was true. 9 Q And this attribute for the clock, you're referring to the priority 1 attribute that's defined in the IEEE standard; right? 12 A Yes. 13 Q And your answer is the same for the priority 2 attribute defined in the IEEE standard, correct, with respect to the PTP priority 2 command?	5		5	Q Yes, that's what I'm asking.
Q And the back-end behavior for each command that you are associated with in Exhibit 92, did you write that source code? A I did write the source code. Q Did you have anyone else's help in writing the source code for those five commands associated with you in Exhibit 92? A No. I wrote all of them. 8 true. 9 Q And this attribute for the clock, you're referring to the priority 1 attribute that's defined in the IEEE standard; right? A Yes. 13 Q And your answer is the same for the priority 2 attribute defined in the IEEE standard, correct, with respect to the PTP priority 2 command?			6	•
that you are associated with in Exhibit 92, did you write that source code? A I did write the source code. Q Did you have anyone else's help in writing the source code for those five commands associated with you in Exhibit 92? A No. I wrote all of them. 9 Q And this attribute for the clock, you're referring to the priority 1 attribute that's defined in the IEEE standard; right? A Yes. Q And your answer is the same for the priority 2 attribute defined in the IEEE standard, correct, with respect to the PTP priority 2 command?	7	•	7	configure this attribute for the clock. That was
write that source code? A I did write the source code. Q Did you have anyone else's help in writing the source code for those five commands associated with you in Exhibit 92? A No. I wrote all of them. 10 referring to the priority 1 attribute that's defined in the IEEE standard; right? A Yes. Q And your answer is the same for the priority 2 attribute defined in the IEEE standard, correct, with respect to the PTP priority 2 command?		· · · · · · · · · · · · · · · · · · ·	E .	
11			9	•
12 Q Did you have anyone else's help in writing 13 the source code for those five commands associated 14 with you in Exhibit 92? 15 A No. I wrote all of them. 12 A Yes. 13 Q And your answer is the same for the 14 priority 2 attribute defined in the IEEE standard, 15 correct, with respect to the PTP priority 2 command?			ş.	
the source code for those five commands associated with you in Exhibit 92? A No. I wrote all of them. 13 Q And your answer is the same for the priority 2 attribute defined in the IEEE standard, correct, with respect to the PTP priority 2 command?			1	-
with you in Exhibit 92? A No. I wrote all of them. 14 priority 2 attribute defined in the IEEE standard, correct, with respect to the PTP priority 2 command?		· · · · · · · · · · · · · · · · · · ·	l .	
A No. I wrote all of them. 15 correct, with respect to the PTP priority 2 command?		i di di di di di di di di di di di di di	i .	
i and the second		· ·	i .	
The III in a "PIP gune interval" command III & A. V		;	ŧ	
	16 17	Q The "PTP sync interval" command	16	A Yes.
17 A Yes. 17 Q And you chose the words sync interval because			İ	
Q Well, actually, just for clarity, what 18 the IEEE standard marked as Exhibit 93 described		· · · · · · · · · · · · · · · · · · ·	i .	
function does the "PTP priority 2" command perform? 19 strike that. A It configures another parameter which helps 20 You chose the words sync interval because the		· · · · · · · · · · · · · · · · · · ·	i	
1			l	
			l .	IEEE standard marked as Exhibit 93 also used the term
	22	- · · · · · ·		·
1 7	22 23	is the priority 2 authorite that is defined by the	23	
25 A Yes. 25 feel that you it's a direct translate from the spec	23	IFFE standard marked as Exhibit 02, asyrant?	2/	THE WITNESS: When you say that it makes
20 Red that you it's a direct translate from the spec	23 24	IEEE standard marked as Exhibit 93; correct? A Yes	24 25	THE WITNESS: When you say that, it makes me

1		Page 153		Page 155
2 priority 2, sync interval, and PTP were defined in the 18 IEEE specification marked as Exhibits 93 before you added those three commands to Ciscor's routing 5 software; correct? A I maware of those terms being defined in the 1588 standard. Q Okay, Bofore you added those three commands to the Cisco software; correct? A Yes. Q Okay. Now, "show PTP clock" is another command, the Cisco software; correct? A Yes. A Yes. A Yes. A I shows the state and status of the clock. And I don't recall the entire output from the command, but I think that's probably summarize majority of the output. Q Okay. And as we discussed earlier in today's deposition, the PTP EEEE specification defines the term clock; correct? A It defined the term clock, yes. Q Okay. And the clock that is referred to in the Command "show PTP clock" is the clock that is referred to in the Command "show PTP clock" is the clock that is referred to in the Command "show PTP clock" in that response you just gave, you're referring to the clock that is defined in the PTP standard; correct? A Yes, I means the clock. A New, WONG: Q. And when you refer to "the PTP clock status. MR. WONG: Q. And when you refer to "the PTP standard; correct? A Yes, I means the clock. Q Now, the —the word "show" in that command, were there other commands in iOS that used the word "show" in that command, were there other commands in iOS that used the word "show" in that command, were there other commands in iOS that used the word "show" or page 50 that starts with: The WITNESS: Kes, I think that — that was the intention. MR. WONG: Q. And is the same explanation apply to explanation —does the same explanation apply to explanation. A I shows the same explanation apply to referring to the clock that is defined in the PTP standard; correct? A Yes, I means the clock. A Yes, I means the clock. Q Now, the —the word "show" in that command, when you refer to "the PTP clock" command when you refer to "the PTP standard; correct? A Yes, Can define the the show aspect of the	1	O You were aware that the terms priority 1	1	A "Show" is a
JEEE specification marked as Exhibit 93 before you added those three commands to Cisco's routing 5 software; correct? A I'm aware of those terms being defined in the 1 548 standard. B A I'm aware of those terms being defined in the 1 548 standard. C O Kay. Before you added those three commands to the Cisco's oftware; correct? C O Kay. Sefore you added those three commands to C O Kay. Now, "show PTP clock" is another 2 command that you're associated with; correct? C O Kay. Now, "show PTP clock" is another 2 command that you're associated with; correct? C A A Yes. C O What's the function performed by the "show 15 PTP clock" command? C A I think that's probably summarize majority of the 2 deposition, the PTP libeEs specification defines the 2 defined in the PTP standard; correct? C O Kay. And the clock that is referred to in 25 MR. PAK: Objection; vague. T HE WITNESS: Well, the command shows the PTP clock status. C MR. WONG: Q. And when you refer to "the PTP clock" in that response you just gave, you're referring to the clock that is referred to in 25 work, the -the word "show" in that command, were there other commands in iOS that used the word "show"? C Now, the -the word "show" in that command, were there other commands in iOS that used the word "show"? C Now, the -the word "show" in that command, were there other commands in iOS that used the word "show" in that command, were there other commands in iOS that used the word "show" in show PTP clock" command to the software; correct? C Now, War the word of "show" in display information be before you added this "show PTP clock" command, to the software; correct? C Now, War the word of "show" in display information be before you added the "show PTP clock" command, to the software; correct? C Now, War the word of "show" to display information be often commands were doing when you close the word "show" in 'show PTP clock" command, to the software; correct? C Now, War the word of "show" to display information before you added the "show PTP clock" command, to the corr	ı		1	
4 added those three commands to Cisco's routing 5 software; correct? 6 A 1'm aware of those terms being defined in the 7 1588 standard. 9 Q Okay. Before you added those three commands 9 to the Cisco software; correct? 10 A Yes. 11 Q Okay. Now, "show PTP clock" is another 12 command that you're associated with; correct? 13 A Yes. 14 Q Whar's the function performed by the "show 15 PTP clock" command? 16 A It shows the state and status of the clock. 17 And I don't recall the entire output from the command, 18 but I think that's probably summarize majority of the 19 output. 10 Q Okay. And as we discussed earlier in today's 10 deposition, the PTP IEEE specification defines the 19 term clock; correct? 20 A R. PAK: Objection; the PTP leEE specification defines the 21 term clock; correct? 22 M. R. PAK: Objection; mischaracterizes the 23 A It defined the term clock, yes. 24 Q Okay. And as we discussed earlier in today's 25 the command "show PTP clock" is the clock that is 26 MR. PAK: Objection; vague. 27 THE WITNESS: Well, the command shows the PTP 28 clock status. 28 MR. PAK: Objection; vague. 3 THE WITNESS: Well, the command shows the PTP 30 clock status. 4 A Yes, in the artsponse you just gave, you're 4 referring to the clock that is defined in the PTP 4 standard; correct? 4 A Yes. 4 A Yes. 5 Q Okay. You were familiar that other command; 6 were there other commands in iOS that used the word 11 where the word "show" in that command, were there other commands in iOS that used the word 16 were there other commands in iOS that used the word 17 A Yes. 18 Q Okay. You were familiar that other commands 18 correct? 19 A Yes. 10 Q Okay. So you — you simply followed what 21 other commands were doing when you close the word 22 "show" in "show PTP clock" command; 24 correct? 25 "show" in "show PTP clock" is that right? 25 "show" in "show PTP clock" is that right? 26 Q Okay. So you — you simply followed what 27 of or mands, the show was pared of the command, we. 28 deposition; or creef? 29 A Yes, in the astatus of the parent clock			1	•
5 software; correct? 6 A I'm aware of those terms being defined in the 7 1588 standard. 8 Q Okay. Before you added those three commands 9 to the Cisco software; correct? 10 A Yes. 11 Q Okay. Now, "show PTP clock" is another 11 command that you're associated with; correct? 12 command that you're associated with; correct? 13 A Yes. 14 Q What's the function performed by the "show 15 PTP clock" command? 16 A It shows the state and status of the clock. 17 And I don't recall the unite output. 18 Og Okay. And as we discussed earlier in today's 19 deposition, the PTP EEE specification defines the 19 cutput. 20 Q Okay. And as we discussed earlier in today's 21 deposition, the PTP EEE specification defines the 22 term clock; correct? 23 A It defined the term clock, yes. 24 Q Okay. And the clock that is referred to in 25 the command "show PTP clock" is the clock that is 26 MR. PAK: Objection; vague. 27 MR. PAK: Objection; vague. 28 MR. PAK: Objection; vague. 30 THE WITNESS: Well, the command shows the PTP 29 A Yes, it means the clock. 31 THE WITNESS: Well, the command shows the PTP 32 Sandard; correct? 33 MR. WONG: Q. And when you refer to "the PTP 34 clock status. 55 MR. WONG: Q. And when you refer to "the PTP 55 clock" in that response you just gave, you're 56 clock" in that response you just gave, you're 57 referring to the clock that is defined in the PTP 58 standard; correct? 59 A Yes, it means the clock. 50 Q Now, the - the word "show" in that command, 50 Q Now, the - the word "show" in that command, 51 Were there other commands in iOS that used the word. 51 Were there other commands in iOS that used the word. 52 Show before you added this "show PTP clock" command. 53 C Q Okay. You were familiar that other commands 54 C Q Okay. You were familiar that other commands 55 C Q Okay. You were familiar that other commands 56 C Q Now, the power last building upon that category of command: 56 the "show PTP clock" is that "status of the clock. 57 C Q Okay. You were familiar that other command. 58 C Q Okay. You were familiar t			1	
6 A I'm aware of those terms being defined in the 7 1588 standard. 8 Q Okay. Before you added those three commands 9 to the Cisco software; correct? 10 A Yes. 11 Q Okay. Now, "show PTP clock" is another 12 command that you're associated with; correct? 13 A Yes. 14 Q What's the function performed by the "show 15 PPT elock" command? 16 A It shows the state and status of the clock. 17 And I don't recall the entire output from the command, 18 but I think that's probably summarize majority of the 19 output. 10 Q Okay. And as we discussed earlier in today's 11 defined the term clock, yes. 12 deposition, the PTP IEEE specification defines the 12 term clock; correct? 13 A It defined the term clock, yes. 14 defined in the PTP standard; correct? 15 the command "show PTP clock" is the clock that is 16 defined in the PTP standard; correct? 17 A R. WONG: Q. And when you refer to "the PTP 18 clock status. 19 A Yes, it means the clock. 10 Q Now, the — the word "show" in that command, 11 were there other commands in iOS that used the word 12 "show' before you added this "show PTP clock" command 13 to the software; correct? 14 A Yes. 15 Go Okay. You were familiar that other commands 16 used the first word of "show" PT clock" command you refer to "the PTP 15 defined in the PTP standard; correct? 16 A I'm aware of the command, when you refer to "the PTP 27 A Yes, it means the clock. 28 NR. PAK: Objection; mischaracterizes the winess' testimony. 19 A Yes, to go os the same explanation apply to "show PTP other winesses the intention. 19 "show PTP parent" for the show aspect of the command, yes. 20 Q Nay, vote the term clock, yes. 21 A It defined the term clock, yes. 22 A Yes, for the show aspect of the command, yes, or the intention. 23 A It defined in the PTP standard; correct? 24 MR. PAK: Objection; mischaracterizes the winesses testimony. 25 The winesses testimony. 26 A Yes, for the show aspect of the command of the word "show probably the parent clock, and the intention. 27 A Yes, for the show aspect of the clock. 28 A Yes, in				
7 1588 standard. 8 Q Okay. Before you added those three commands 9 to the Cisco software; correct? 10 A Yes. 11 Q Okay. Now, "show PTP clock" is another 12 command that you're associated with; correct? 13 A Yes. 14 Q What's the function performed by the "show 15 PTP clock" command? 16 A It shows the state and status of the clock. 17 And I don't recall the entire output from the command, 18 but I think that's probably summarize majority of the 19 output. 20 Q Okay. And as we discussed earlier in today's 21 deposition, the PTP IEEE specification defines the 22 term clock; correct? 23 A It defined the term clock, yes. 24 Q Okay. And the clock that is referred to in 25 the command "show PTP clock" is the clock that is 26 MR. PAK: Objection; vague. 27 THE WITNESS: Well, the command shows the PTP 28 clock status. 29 A Yes, it means the clock 20 Q Now, the - the word "show" in that command, 20 were there other commands in iOS that used the word 21 were there other commands in iOS that used the word 22 "show" in "show PTP clock" is that right? 23 A Yes, 24 Q Okay. You were familiar that other commands 25 THE WITNESS: Well, the command shows the PTP 26 clock" in that response you just gave, you're 27 referring to the clock that is defined in the PTP 28 standard; correct? 29 A Yes, it means the clock. 30 Q Now, the - the word "show" in that command, 31 were there other commands in iOS that used the word 32 The WITNESS: Can you refer met to the page. 33 THE WITNESS: Can you refer met to the page. 34 A Yes. 35 Q Okay. You were familiar that other commands 36 to the software? 37 A Yes. 38 Q Okay. What status of the page. 39 A Yes, it means the clock. 30 Q Okay. You were familiar that other commands 31 to the software? 31 A Yes. 32 Q Okay. You were familiar that other commands 34 A Yes. 35 Q Okay. You were familiar that other commands 36 Used the first word of "show" in display information 37 before you added the "show PTP clock" command. 38 Correct? 39 A Yes. 30 Q Okay. You were familiar that other commands 30 Q Okay. You w			6	
9 O Kay, And as we discussed earlier in today's 10 defined in the PTP standard; correct? 21 defined in the PTP standard; correct? 22 MR. PAK: Objection; vague. 23 A It defined the term clock, yes. 24 Q O Kay, And the clock that is referred to in 25 MR. PAK: Objection; vague. 26 MR. PAK: Objection; vague. 27 MR. WONG: Q. And when you refer to "the PTP clock status. 38 MR. WONG: Q. And when you refer to "the PTP clock" in that response you just gave, you're 4 clock status. 4 MR. WONG: Q. And when you refer to "the PTP clock" in that response you just gave, you're 5 MR. PAK: Objection; vague. 4 Mr. PAK: Objection; vague. 5 MR. WONG: Q. And when you refer to "the PTP clock" in that response you just gave, you're 6 clock status. 6 Q Now, the - the word "show" in that command, to the software? 7 MR. WONG: Q. And when you refer to "the PTP clock" that is referred to in 8 MR. WONG: Q. And when you refer to "the PTP clock" in that response you just gave, you're 9 A Yes, it means the clock. 10 Q Now, the - the word "show" in that command, the were there often roomands in iOS that used the word "show" in that command, to the software? 9 A Yes, it means the clock that is defined in the PTP standard; correct? 9 A Yes, it means the clock that is defined in the PTP standard; correct? 11 the were there often roomand with the proper clock in that at suppose you just gave, you're 12 meter the proper clock in that response you just gave, you're 13 to the software? 14 A Yes. 15 Q Okay, You were familiar that other commands to the software? 16 A Yes. 17 Defined the term to lock that is defined in the PTP standard; correct? 18 A It shows the status of the parent clock in the standards earlier in this deposition; correct? 2 A Yes, Clojection; vague. 2 THE WITNESS: Yes, I think that "show PTP clock" is that if the proper clock in the standards earlier in the definition of parent clock in the standards earlier in this deposition; correct? 2 A Yes, Clojection; vague. 3 THE WITNESS: Clay ou refer me to that page. 4 Yes, Clojection; vague			i	
to the Cisco software; correct? A Yes. Q Okay, Now, "show PTP clock" is another command that you're associated with; correct? A Yes. Q What's the function performed by the "show PTP clock" command? A Yes. And I don't recall the entire output from the command, but I think that's probably summarize majority of the output. Q Okay, And as we discussed earlier in today's deposition, the PTP EEEE specification defines the term clock; correct? A It defined the term clock, yes. Q Okay, And the clock that is referred to in the command "show PTP clock" is the clock that is ME. PAK: Objection; mischaracterizes the witness' testimony. THE WITNESS: Yes, I think that that was the intention. MR. WONG: Q. And is the same explanation apply to "show PTP parent" for the show aspect of that command? A Yes, for the show aspect of that command? A Yes, for the show aspect of the command of the term clock, yes. Q Okay. And the further for the PTP defined in the PTP standard; corre			1	· · · · · · · · · · · · · · · · · · ·
10 A Yes. 11 Q Okay. Now, "show PTP clock" is another 12 command that you're associated with; correct? 13 A Yes. 14 Q What's the function performed by the "show 15 PTP clock" command? 16 A It shows the state and status of the clock. 17 And I don't recall the entire output from the command, 18 but I think that's probably summarize majority of the 19 output. 20 Q Okay. And as we discussed earlier in today's 21 deposition, the PTP IEEE specification defines the 22 term clock; correct? 23 A It defined the term clock, yes. 24 Q Okay. And the clock that is referred to in 25 the command "show PTP clock" is the clock that is 25 MR. PAK: Objection; vague. 26 THE WITNESS: Well, the command shows the PTP 27 clock status. 28 MR. PAK: Objection; vague. 30 THE WITNESS: Well, the command shows the PTP 40 clock status. 40 MR. PAK: Objection; vague. 41 A Yes. 41 A Yes. 42 Q Nay. what function does the "show PTP perform?" 41 A Yes. 41 A Yes. 42 Q Nay. what function does the "show PTP perform?" 42 MR. PAK: Objection; vague. 43 THE WITNESS: Well, the command shows the PTP 44 clock status. 55 MR. WONG: Q. And when you refer to "the PTP 56 clock" in that response you just gave, you're 57 referring to the clock that is defined in the PTP 58 standard; correct? 59 A Yes, it means the clock. 50 Q Now, the —the word "show" in that command, were there other commands in iOS that used the word 51 the software? 51 A Yes. 52 Q Okay. You were familiar that other command, were there other commands in iOS that used the word 51 the first word of "show" to display information before you added the "show PTP clock" command; 16 used the first word of "show" to display information before you added the "show PTP clock" command; 17 A Yes. 51 Q Okay. So you —you simply followed what other commands were doing when you chose the word 18 the first word of "show" to refer the town of the word of "show" to refer me to that page. The word of "show" to refer me to that page. The word of "show" to refer me to that page. The word of "show" to refer me to that pag			1	
11 Q Okay. Now, "show PTP clock" is another command that you're associated with; correct? 12 clock"; correct? 13 A Yes. 13 A Yes. 14 Q What's the function performed by the "show 15 PTP clock" command; 15 MR. PAK; Objection; mischaracterizes the witness' testimony. 16 A It shows the state and status of the clock. 16 A It shows the state and status of the clock. 17 A It shows the state and status of the clock. 18 but I think that's probably summarize majority of the output. 18 clock that is reported to in 18 clock that is efficient on the command 18 clock that is efficient on the command 18 clock that is efficient on the command 18 clock that is efficient on the command 19 clock status. 19 clock status. 19 A Yes. 19 A Yes. 19 A Yes. 10 Clock" command; 10 clock is simply parent; correct? 10 clock status. 10 clock is simply parent; correct? 10 clock is the clock that is deposition; correct? 10 clock is the clock that is defined in the PTP 10 clock status. 10 clock is missingly parent; correct? 10 clock is missingly parent; correct? 11 clock is missingly parent; correct? 12 clock is means the clock. 13 clock is oliver or page 3 of Exhibiti 93. It's in that seather emaps the volume of "show" in "show PTP clock" command; 16 correct? 17 clock is oliver or page 3 of Exhibiti 93. It's in that seather emaps the volume of "show" to display information before you added the "show PTP clock" command; 16 correct? 17 correct? 18 correct? 18 correct? 19 A Yes.				
command that you're associated with; correct? A Yes, Q What's the function performed by the "show PTP clock' command? A It shows the state and status of the clock, And I don't recall the entire output from the command, but I think that's probably summarize majority of the output. Q Okay, And as we discussed earlier in today's deposition, the PTP IEEE specification defines the term clock; correct? A It defined the term clock, yes. Q Okay, And the clock that is referred to in the command "show PTP clock" is the clock that is but I think that's probably summarize majority of the output. A It defined the term clock, yes. Q Okay, And the clock that is referred to in the command "show PTP clock" is the clock that is but I defined in the PTP standard; correct? MR. PAK: Objection; vague. The WITNESS: Well, the command shows the PTP clock as defined in the PTP standard; correct? A Yes, Command "show PTP clock" in that response you just gave, you're clock 'in that response you just gave, you're A Yes, I think that that was the intention. AR. WONG: Q. And is the same explanation apply to "show PTP parent" command spot or "show PTP parent" command shows the PTP clock as defined in the PTP standard; correct? A Yes. Q And you recall discussing the definition of parent clock in the standards earlier in this deposition; correct? A Yes, I think that that was the intention. AR. WONG: Q. And is the same explanation apply to "show PTP parent" command stows aspect of the command, and it is the show aspect of the command shows the PTP andard's correct? A Yes. Q And you recall discussing the definition of parent clock in the standards earlier in this deposition; correct? A Yes. Q And another shorthand used by the IEEE standard for parent clock is simply parent; correct? A Yes. Q Now, the			ŧ	
13 A Yes. 14 Q What's the function performed by the "show 15 PTP clock" command? 15 PTP clock" command? 16 A It shows the state and status of the clock. 17 And I don't recall the entire output from the command, 16 but I think that's probably summarize majority of the output. 18 Q Okay. And as we discussed earlier in today's 17 deposition, the PTP IEEE specification defines the 18 term clock; correct? 20 A It defined the term clock, yes. 21 Q Okay. And the clock that is referred to in 18 the command "show PTP clock" is the clock that is 18 term clock; correct? 22 MR. PAK: Objection; vague. 23 THE WITNESS: Well, the command shows the PTP clock status. 24 Q Okay. And when you refer to "the PTP clock in that response you just gave, you're 19 referring to the clock that is defined in the PTP standard; correct? 25 A Yes, it means the clock. 26 Q Now, the -the word "show" in that command, 10 were there other commands in iOS that used the word 11 to the software? 27 A Yes. 28 Q Okay. You were familiar that other commands used the first word of "show" To display information 19 before you added this "show PTP clock" command; 17 A Yes. 27 Q Okay. So you you simply followed what 10 the commands were doing when you chose the word 12 "show" in "show PTP clock"; is that right? 29 A Yes. 20 Q Okay. So you you simply followed what 20 Q So you would agree that, in the IEEE standard, it uses the term parent as shorthand for parent clock?" is the terminand, 17 Show PTP clock"; is that right? 20 Okay. So you you simply followed what 20 Q So you would agree that, in the IEEE standard, it uses the term parent as shorthand for parent clock?" is the terminand, 17 Show PTP clock" is that right? 21 The WITNESS: Yes, I think that that was the intention. 22 When you Sty "the parent clock the same explanation does the same explanation does the same explanation does the same explanation does the same explanation does the same explanation does the same explanation does the same explanation			1	
Vintess' testimony. THE WITNESS: Yes, I think that that was the intention. And I don't recall the entire output from the command, but I think that's probably summarize majority of the output. Q Okay. And as we discussed earlier in today's deposition, the PTP IEEE specification defines the term clock; correct? A I t defined the term clock, yes. Q Okay. And the clock that is referred to in the command "show PTP clock" is the clock that is Page 154 defined in the PTP standard; correct? MR. PAK: Objection; vague. THE WITNESS: Yes, I think that that was the intention. MR. WONG: Q. And is the same explanation apply to explanation does the same explanation apply to a cyplanation does the same explanation apply to "show PTP parent" for the show aspect of that command? A Yes, for the show aspect of that command? A Yes, for the show aspect of that command? A Yes, objection; vague. Page 154 Page 156 Page 1		•	i	
15 PTP clock" command? A It shows the state and status of the clock. 17 And I don't recall the entire output from the command, 18 but I think that's probably summarize majority of the 19 output. Q Okay. And as we discussed earlier in today's deposition, the PTP IEEE specification defines the 12 term clock; correct? 23 A It defined the term clock, yes. 24 Q Okay. And the clock that is referred to in 25 the command "show PTP clock" is the clock that is 26 defined in the PTP standard; correct? 27 MR. PAK: Objection; vague. 28 MR. WONG: Q. And when you refer to "the PTP 29 clock status. 29 MR. Wong Q. And when you refer to "the PTP 20 clock in that response you just gave, you're 21 referring to the clock that is defined in the PTP 22 standard; correct? 23 A It shows the status of the parent clock. 24 Q. When you say "the parent clock," are you referring to the parent clock as defined in the PTP 25 deposition; correct? 26 MR. PAK: Objection; vague. 27 referring to the clock that is defined in the PTP 28 standard; correct? 39 A Yes, it means the clock. 40 Q. Now, the —the word "show" in that command, were there other commands in iOS that used the word 41 were there other commands in iOS that used the word 42 "show" before you added this "show PTP clock" command; correct? 41 A Yes. 42 Q. Okay. You were familiar that other commands used the first word of "show" to display information before you added the "show PTP clock" command; correct? 42 A Yes. 43 Q. Okay. So you — you simply followed what other commands were doing when you chose the word 44 A Yes. 45 Q. Okay. So you — you simply followed what other commands were doing when you chose the word 46 Correct? 47 A Yes. 48 Yes. 49 Q. And another shorthand used by the IEEE standard; correct? 49 A Yes. 40 Q. And another shorthand used by the IEEE standard; correct? 40 Q. Say. You were familiar that other command; in the IEEE standard; correct? 41 A Yes. 42 Q. Okay. So you — you simply followed what other commands were doing when you chose the word other commands were doi			1	
And I don't recall the entire output from the command, but I think that's probably summarize majority of the output. Q Okay, And as we discussed earlier in today's deposition, the PTP IEEE specification defines the term clock; correct? And I don't recall the entire output from the command, but I think that's probably summarize majority of the output. Q Okay, And as we discussed earlier in today's deposition, the PTP IEEE specification defines the term clock; correct? A It defined the term clock, yes. Q Okay. And the clock that is referred to in the command "show PTP clock" is the clock that is Page 154 defined in the PTP standard; correct? MR. PAK: Objection; vague. THE WITNESS: Well, the command shows the PTP clock' status. MR. WONG: Q. And when you refer to "the PTP clock" in that response you just gave, you're referring to the clock that is defined in the PTP standard; correct? A Yes, it means the clock. Q Now, the the word "show" in that command, were there other commands in iOS that used the word was the first word of "show" to display information before you added this "show PTP clock" command; correct? A Yes. Q Okay, So you you simply followed what other commands were doing when you chose the word there commands were doing when you chose the word care in show "The plock": standard, it uses the term parent as shorthand for parent clock? "show" in "show PTP clock": stath right? He intention. MR. WONG: Q. And is the same explanation apply to output. A Yes, or the show aspect of that command? A Yes, of the show aspect of the command? A Yes, or the show aspect of that command? A Yes, or the show aspect of that command? A Yes, or the show aspect of that command? A Yes, or the show aspect of the command? A Yes, or the show aspect of the command? A Yes, or the show aspect of the command? A Yes, or the show aspect of the command? A Yes, or the show aspect of the command? A Yes, or the show aspect of the command? A Yes, or the show aspect of the command? A Yes, or the show aspect			Į.	· · · · · · · · · · · · · · · · · · ·
And I don't recall the entire output from the command, but I think that's probably summarize majority of the output. Q Okay. And as we discussed earlier in today's deposition, the PTP IEEE specification defines the term clock; correct? A It defined the term clock, yes. A It defined the term clock, yes. Q Okay. And the clock that is referred to in the command "show PTP clock" is the clock that is Page 154 defined in the PTP standard; correct? MR. PAK: Objection; vague. THE WTINESS: Well, the command shows the PTP clock" in that response you just gave, you're referring to the clock that is defined in the PTP standard; correct? A Yes, it means the clock. Q Now, the — the word "show" in that command, were there other commands in OS that used the word to the software? A Yes, Q Okay. You were familiar that other commands used the first word of "show" to display information before you added the "show PTP clock" command; correct? A Yes, Q Okay. So you — you simply followed what other commands were doing when you chose the word "show" in "show PTP clock"; is that right? MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. With the software? A Yes, Q Okay. You were familiar that other command; correct? A Yes, Q Okay. You were familiar that other command; correct? A Yes, Q Okay. So you — you simply followed what other commands were doing when you chose the word "show PTP parent" for the show aspect of that command, and a Yes, for the show aspect of that command? A Yes, A It shows the status of the parent clock. A Yes, A Yes. A Yes. Q And you recall discussing the definition of parent clock in the standards earlier in this deposition; correct? A Yes. Q And another shorthand used by the IEEE standard for parent clock is simply parent; correct? MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. With think it's on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the		•	ļ	
but I think that's probably summarize majority of the output. Q Okay. And as we discussed earlier in today's deposition, the PTP IEEE specification defines the term clock; correct? A It defined the term clock, yes. Q Okay. And the clock that is referred to in the command, "show PTP clock" is the clock that is Page 154 defined in the PTP standard; correct? MR. PAK: Objection; vague. THE WITNESS: Well, the command shows the PTP clock" in that response you just gave, you're referring to the clock that is defined in the PTP standard; correct? A Yes, it means the clock. Q Now, the — the word "show" in that command, were there other commands in iOS that used the word wishoware? A Yes. Q Okay. You were familiar that other commands used the first word of "show" to display information before you added the "show PTP clock" command; correct? A Yes. Q Okay. You wore familiar that other commands were doing when you chose the word wishow PTP clock" is that right? A Yes. Q Okay. So you — you simply followed what other commands were doing when you chose the word wishow PTP clock"; is that right?			1	
output. Q Okay, And as we discussed earlier in today's deposition, the PTP IEEE specification defines the term clock; correct? A It defined the term clock, yes. Page 154 defined in the PTP standard; correct? MR. PAK: Objection; vague. THE WITNESS: Well, the command shows the PTP clock in that response you just gave, you're referring to the clock that is defined in the PTP standard; correct? A Yes, C Okay. You were familiar that other commands used the first word of "show" to display information before you added the "show PTP clock" command; 20 Okay. So you — you simply followed what other commands were doing when you chose the word "show" in "show PTP clock"; is that right? "show PTP parent" for the show aspect of that command, yes, A Yes, Ge the show aspect of that command, yes, O A Yes, for the show aspect of that command, yes, O A Yes, for the show aspect of that command, yes, O A Yes, for the show aspect of that command, yes, O A Yes, Or Show PTP tendents the show A Yes, In the show aspect of that command, yes, O A Yes, or fer in today's A Yes, Olokay. Or Show PTP clock in the show aspect of that command, yes, Or A Yes, or fer show where the show aspect of that command, yes, Or A Yes, Or Show PTP tendents the show A Yes, or fer in the show aspect of that command, yes, Or Ayes, Or Show PTP clock, yes. 120 Okay, And the clock that is fefered to in the term clock, A It shows the status of the parent clock. 24 Q When you say "the parent clock as defined in the PTP 15 Standards? A Yes, Or A		• • • • • • • • • • • • • • • • • • •		
Q Okay. And as we discussed earlier in today's deposition, the PTP IEEE specification defines the term clock; correct? A It defined the term clock, yes. Q Okay. And the clock that is referred to in the command "show PTP clock" is the clock that is Page 154 Page 154 defined in the PTP standard; correct? MR. PAK: Objection; vague. MR. PAK: Objection; vague. MR. WONG: Q. And when you refer to "the PTP clock" in that response you just gave, you're referring to the clock that is defined in the PTP standard; correct? MR. WONG: Q. And when you refer to "the PTP standard; correct" A Yes, it means the clock. Q When you say "the parent clock." are you referring to the parent clock as defined in the PTP clock status. MR. WONG: Q. And when you refer to "the PTP clock" in that response you just gave, you're referring to the clock that is defined in the PTP standard; correct? A Yes, it means the clock. Q Now, the "in that command, yes. Q And you sugue be defined in the PTP standard; correct? A Yes. Q And another shorthand used by the IEEE standard for parent clock is simply parent; correct? MR. WONG: Sure, sure, absolutely. Q I think it's on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 that starts with: "Ordinary and boundary clocks may keep statisties." A Yes. Q Okay. You were familiar that other command; to the software? A Yes. Q Okay. So you you simply followed what other commands were doing when you chose the word "show" in "show PTP clock"; is that right? A Yes, or the show aspect of the command, power arent" conck. Q When you say "the parent clock. Q When you say "the parent clock. Q When you say "the parent clock as defined in the PTP standards? A Yes. Q And you recall discussing the definition of parent clock is the standard; correct? A Yes. Q And another shorthand used by the IEEE standard for parent clock is simply parent; correct? HE WITNESS: Can you refer me to that page. MR. WONG: Sure, sure, absolutely. Q I think it's on page 53 of Exhibit 93. It's		• • •	[
deposition, the PTP IEEE specification defines the term clock; correct? A It defined the term clock, yes. Q Okay. And the clock that is referred to in the command "show PTP clock" is the clock that is Page 154 defined in the PTP standard; correct? MR. PAK: Objection; vague. THE WITNESS: Well, the command shows the PTP clock status. MR. WONG: Q. And when you refer to "the PTP clock" in that response you just gave, you're referring to the clock that is defined in the PTP standard; correct? A Yes, in mans the clock. Q Neary Now, the "the word "show" in that command, were there other commands in iOS that used the word was other word of "show" to display information before you added the "show PTP clock" command; located the word of "show" to display information before you added the "show PTP clock" command; located the word of "show" to display information before you added the "show PTP clock" command; located the word of "show" to display information before you added the "show PTP clock" command; located the word of "show" to display information before you added the "show PTP clock" command; located the word of "show" to display information before you added the "show PTP clock" command; located the word of "show" to display information before you added the "show PTP clock" command; located the word of "show" to display information before you added the "show PTP clock" command; located the word located the word of "show" to display information before you added the "show PTP clock" command; located the word located the "show PTP clock" command; located the word located the "show PTP clock" command; located the word located the "show PTP clock" command; located the word located the word located the "show PTP clock" command; located the word located the "show PTP clock" command; located the word located the "show PTP clock" is that right? Were there other commands were doing when you chose the word located the "show PTP clock"; is that right? Laceted the word located the "show PTP clock" is that located the wo		=	1	
22 term clock; correct? 23 A It defined the term clock, yes. 24 Q Okay. And the clock that is referred to in the command "show PTP clock" is the clock that is 25 term clock, yes. 26 Q Okay. And the clock that is referred to in the command "show PTP clock" is the clock that is 26 term clock as defined in the PTP 27 defined in the PTP standard; correct? 28 MR. PAK: Objection; vague. 39 THE WITNESS: Well, the command shows the PTP clock status. 40 And you recall discussing the definition of parent clock in the standards earlier in this deposition; correct? 41 defined in the PTP standard; correct? 42 MR. WONG: Q. And when you refer to "the PTP clock" in that response you just gave, you're 43 referring to the clock that is defined in the PTP clock" in that response you just gave, you're 44 referring to the clock that is defined in the PTP clock" in that response you just gave, you're 45 referring to the clock that is defined in the PTP clock" in that response you just gave, you're 46 clock "in that response you just gave, you're 47 referring to the parent clock as defined in the PTP clock and you recall discussing the definition of parent clock in the standards earlier in this deposition; correct? 47 A Yes. 48 standard; correct? 49 A Yes, the means the clock. 49 ANA: Objection; vague. 40 And another shorthand used by the IEEE standard for parent clock is simply parent; correct? 41 MR. PAK: Objection; vague. 41 THE WITNESS: Can you refer me to that page. 41 MR. WONG: Sure, sure, absolutely. 42 It hink it's on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 that starts with: 42 Okay. 43 Yes. 44 Q Nada another shorthand used by the IEEE standard for parent clock in the standard; correct? 44 A Yes. 45 Q And another shorthand used by the IEEE standard; to page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 that starts with: 45 Gridinary and boundary clocks may keep standard; to go you would agree that, in the IEEE standard, it uses the term par		· · · · · · · · · · · · · · · · · · ·	1	
A It defined the term clock, yes. Q Okay. And the clock that is referred to in the command "show PTP clock" is the clock that is Page 154 Page 154 Page 155 RR. PAK: Objection; vague. MR. PAK: Objection; vague. MR. WONG: Q. And when you refer to "the PTP clock in that response you just gave, you're referring to the standard; correct? A Yes. MR. WONG: Q. And when you refer to "the PTP clock in that response you just gave, you're referring to the clock that is defined in the PTP standard; correct? A Yes, it means the clock. O Now, the the word "show" in that command, were there other commands in iOS that used the word to the software? A Yes. Q Okay. You were familiar that other command; correct? A Yes. Q Okay. You were familiar that other command; correct? A Yes. Q Okay. So you you simply followed what other commands were doing when you chose the word "show" in "show PTP clock"; is that right? A It shows the status of the parent clock. Q When you say "the parent clock. The provide the parent clock in the PTP A Yes. A Yes. Q And you recall discussing the definition of parent clock in the standards earlier in this deposition; correct? A Yes. Q And another shorthand used by the IEEE standard for parent clock is simply parent; correct? MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. WONG: Sure, sure, absolutely. Q I think it's on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 that starts with: "Using the following attribute." A Uh-huh. "Using the following attribute." Okay. Q So you would agree that, in the IEEE standard, it uses the term parent as shorthand for parent clock?			1	
Q Okay. And the clock that is referred to in the command "show PTP clock" is the clock that is Page 154 Page 154 defined in the PTP standard; correct? MR. PAK: Objection; vague. THE WITNESS: Well, the command shows the PTP clock in that response you just gave, you're referring to the parent clock as defined in the PTP standard; correct? A Yes. MR. WONG: Q. And when you refer to "the PTP clock in that response you just gave, you're referring to the clock that is defined in the PTP astandard; correct? A Yes. O And you recall discussing the definition of parent clock in the standards earlier in this deposition; correct? A Yes. O And another shorthand used by the IEEE standard; correct? MR. PAK: Objection; vague. MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. PAK: Objection; vague. MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. WONG: Sure, sure, absolutely. It would be fore you added this "show PTP clock" commands to the software? A Yes. O Okay. You were familiar that other commands used the first word of "show" to display information before you added the "show PTP clock" command; correct? A Yes. O Okay. So you you simply followed what other commands were doing when you chose the word "show" in "show PTP clock"; is that right? A Yes. O Okay. To would agree that, in the IEEE standard, it uses the term parent as shorthand for parent clock?		•		•
Page 154 Page 154 Page 156 Referring to the parent clock as defined in the PTP Page 156 Page 156 Referring to the parent clock as defined in the PTP defined in the PTP standard; correct? MR. PAK: Objection; vague. THE WITNESS: Well, the command shows the PTP clock status. MR. WONG: Q. And when you refer to "the PTP clock" in that response you just gave, you're referring to the clock that is defined in the PTP standard; correct? A Yes. Q And another shorthand used by the IEEE standard for parent clock is simply parent; correct? A Yes. Q And another shorthand used by the IEEE standard for parent clock is simply parent; correct? MR. PAK: Objection; vague. A Yes. Q And another shorthand used by the IEEE standard for parent clock is simply parent; correct? MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. WONG: Sure, sure, absolutely. Q I think it's on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 the way down on page 53 the standard; in that sentence maybe two-thirds of the way down on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 the standard; in the software? A Yes. Q Okay. You were familiar that other commands used the first word of "show" to display information before you added the "show PTP clock" command; correct? A Yes. Q Okay. So you you simply followed what other commands were doing when you chose the word "Show" in "show PTP clock"; is that right? Page 154 A Yes. Q And another shorthand used by the IEEE standard for parent clock is simply accept? A Yes. Q I think it's on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 the standard. "Ordinary and boundary clocks may keep statistics." A Uh-huh. "Using the following attribute." Okay. Q So you would agree that, in the IEEE standard, it uses the term parent as shorthand for parent clock?		· · · · · · · · · · · · · · · · · · ·	1	
Page 154 defined in the PTP standard; correct? MR. PAK: Objection; vague. THE WITNESS: Well, the command shows the PTP clock in the standards earlier in this deposition; correct? MR. WONG: Q. And when you refer to "the PTP clock in the tresponse you just gave, you're referring to the clock that is defined in the PTP standard; correct? A Yes. Vere there other commands in iOS that used the word were there other commands in iOS that used the word to the software? A Yes. Q And another shorthand used by the IEEE standard; correct? MR. PAK: Objection; vague. MR. PAK: Objection; vague. MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. WONG: Sure, sure, absolutely. Q I think it's on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 that starts with: Defore you added the "show PTP clock" command; correct? A Yes. A Yes. A Yes. Q And another shorthand used by the IEEE standard for parent clock is simply parent; correct? MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. WONG: Sure, sure, absolutely. Q I think it's on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 that starts with: "Ordinary and boundary clocks may keep statistics." A Uh-huh. "Using the following attribute." A Uh-huh. "Using the following attribute." A Yes. Q Okay. So you you simply followed what other commands were doing when you chose the word "Show" in "Show PTP clock"; is that right? Defore you added the transpart of the word of "Show" is that right? Page 15		* •		
defined in the PTP standard; correct? MR. PAK: Objection; vague. THE WITNESS: Well, the command shows the PTP clock" in that response you just gave, you're referring to the clock that is defined in the PTP standard; correct? A Yes. Q And you recall discussing the definition of parent clock in the standards earlier in this deposition; correct? A Yes. Q And another shorthand used by the IEEE standard; correct? A Yes, it means the clock. Q Now, the the word "show" in that command, were there other commands in iOS that used the word whether other shorthand used deposition; correct? MR. PAK: Objection; vague. MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. WONG: Sure, sure, absolutely. Q I think it's on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 that starts with: Q Okay. You were familiar that other commands used the first word of "show" to display information before you added the "show PTP clock" command; COTIONARY A Yes. Q Okay. So you you simply followed what other commands were doing when you chose the word "show" in "show PTP clock"; is that right?	20	the command show 111 clock is the clock that is		totoling to the phone of ook as defined in the life
MR. PAK: Objection; vague. THE WITNESS: Well, the command shows the PTP clock status. MR. WONG: Q. And when you refer to "the PTP clock" in that response you just gave, you're referring to the clock that is defined in the PTP standard; correct? A Yes, it means the clock. Q Now, the the word "show" in that command, were there other commands in iOS that used the word to the software? MR. WONG: Sure, sure, absolutely. Were there other commands in iOS that used the word to the software? A Yes. Q Okay. You were familiar that other commands used the first word of "show" to display information before you added the "show PTP clock" command; correct? A Yes. Q Okay. So you you simply followed what other commands were doing when you chose the word "show" in "show PTP clock"; is that right? A Yes. C And another shorthand used by the IEEE standard for parent clock is simply parent; correct? MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. WONG: Sure, sure, absolutely. Q I think it's on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 that starts with: "Ordinary and boundary clocks may keep statistics." A Uh-huh. "Using the following attribute." Okay. Q Okay. So you you simply followed what other commands were doing when you chose the word The witness and and reference are parent clock in the standards earlier in this deposition; correct? A Yes. A Yes. Q Okay. So you would agree that, in the IEEE standard, it uses the term parent as shorthand for parent clock?		Page 154	n ingan pananan sepanja	Page 156
THE WITNESS: Well, the command shows the PTP clock status. MR. WONG: Q. And when you refer to "the PTP clock" in that response you just gave, you're referring to the clock that is defined in the PTP standard; correct? A Yes. A Yes, it means the clock. Q Now, the the word "show" in that command, were there other commands in iOS that used the word to the software? The word before you added this "show PTP clock" command to the software? A Yes. Q Okay. You were familiar that other command; before you added the "show PTP clock" command; correct? A Yes. Q Okay. You were familiar that other command; correct? A Yes. Q Okay. So you you simply followed what of the word of "show" in "show PTP clock"; is that right? A Yes. Q Okay in the standards earlier in this deposition; correct? A Yes. Q And another shorthand used by the IEEE standard for parent clock is simply parent; correct? A Yes. A Wes. A Yes. A Wen. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. WONG: Sure, sure, absolutely. Q I think it's on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 that starts with: "Ordinary and boundary clocks may keep statistics." A Uh-huh. "Using the following attribute." Okay. Q Okay. So you you simply followed what other commands were doing when you chose the word 20 So you would agree that, in the IEEE standard, it uses the term parent as shorthand for parent clock?	1	defined in the PTP standard; correct?	1	standards?
deposition; correct? MR. WONG: Q. And when you refer to "the PTP to clock" in that response you just gave, you're referring to the clock that is defined in the PTP to standard; correct? A Yes. Q And another shorthand used by the IEEE standard; correct? A Yes, it means the clock. Q Now, the the word "show" in that command, to were there other commands in iOS that used the word to the software? A Yes. THE WITNESS: Can you refer me to that page. MR. WONG: Sure, sure, absolutely. Q I think it's on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 that starts with: Q Okay. You were familiar that other commands to statistics." A Yes. Q Okay. So you you simply followed what other commands were doing when you chose the word to "show" in "show PTP clock"; is that right? A Wes the first word of "show" to display information to the commands where doing when you chose the word to the commands were doing when you chose the word to "show" in "show PTP clock"; is that right? A Un-huh. A Yes. Q So you would agree that, in the IEEE standard, it uses the term parent as shorthand for parent clock?	2	MR. PAK: Objection; vague.	2	A Yes.
MR. WONG: Q. And when you refer to "the PTP clock" in that response you just gave, you're referring to the clock that is defined in the PTP 7	3	THE WITNESS: Well, the command shows the PTP	3	Q And you recall discussing the definition of
clock" in that response you just gave, you're referring to the clock that is defined in the PTP standard; correct? A Yes, it means the clock. Q Now, the the word "show" in that command, were there other commands in iOS that used the word "show" before you added this "show PTP clock" commands A Yes. Q Okay. You were familiar that other commands, before you added the "show PTP clock" command; correct? A Yes. Q And another shorthand used by the IEEE standard for parent clock is simply parent; correct? MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. WONG: Sure, sure, absolutely. Q I think it's on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 that starts with: "Ordinary and boundary clocks may keep statistics." A Uh-huh. "Using the following attribute." Okay. Q Okay. So you you simply followed what other commands were doing when you chose the word "Show" in "Show PTP clock"; is that right? A Yes. Q And another shorthand used by the IEEE standard for parent clock is simply parent; correct? MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. WONG: Sure, sure, absolutely. Q I think it's on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 that starts with: "Ordinary and boundary clocks may keep statistics." A Uh-huh. "Using the following attribute." Okay. Q So you would agree that, in the IEEE standard, it uses the term parent as shorthand for parent clock?	4	clock status.	4	parent clock in the standards earlier in this
referring to the clock that is defined in the PTP standard; correct? A Yes, it means the clock. Q Now, the the word "show" in that command, were there other commands in iOS that used the word "show" before you added this "show PTP clock" command to the software? Q Okay. You were familiar that other commands used the first word of "show" to display information before you added the "show PTP clock" command; A Yes. Q Okay. So you you simply followed what other commands were doing when you chose the word C Okay. The WITNESS: Can you refer me to that page. MR. WONG: Sure, sure, absolutely. Q I think it's on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 that starts with: "Ordinary and boundary clocks may keep statistics." A Uh-huh. "Using the following attribute." Okay. Q Okay. So you you simply followed what other commands were doing when you chose the word Ze "show" in "show PTP clock"; is that right? A Yes. C And another shorthand used by the IEEE standard for parent clock is simply parent; correct? MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. PAK: Objection; vague. A WE. Objection; vague. THE WITNESS: Can you refer me to that page. MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. PAK: Objection; vague. The WITNESS: Can you refer me to that page. MR. PAK: Objection; vague. The WITNESS: Can you refer me to that page. The WITNESS: Can you refer me to that page. The WITNESS: Can you refer me to that page. The WITNESS: Can you refer me to that page. The WITNESS: Can you refer me to that page. The WITNESS: Can you refer me to	5	MR. WONG: Q. And when you refer to "the PTP	5	deposition; correct?
standard; correct? A Yes, it means the clock. Q Now, the the word "show" in that command, were there other commands in iOS that used the word "show" before you added this "show PTP clock" command A Yes. Q Okay. You were familiar that other command; before you added the "show PTP clock" command; correct? A Yes. Q Okay. You were familiar that other commands Before you added the "show PTP clock" command; A Yes. Q Okay. You were familiar that other commands Before you added the "show PTP clock" command; A Yes. Q Okay. So you you simply followed what Correct? Q Okay. So you you simply followed what Cother commands were doing when you chose the word "Show" in "show PTP clock"; is that right? Standard for parent clock is simply parent; correct? MR. PAK: Objection; vague. THE WITNESS: Can you refer me to that page. MR. WONG: Sure, sure, absolutely. Q I think it's on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 that starts with: "Ordinary and boundary clocks may keep statistics." A Uh-huh. Busing the following attribute." Okay. Q So you would agree that, in the IEEE standard, it uses the term parent as shorthand for parent clock?	6	clock" in that response you just gave, you're	6	A Yes.
9 A Yes, it means the clock. 10 Q Now, the the word "show" in that command, 11 were there other commands in iOS that used the word 12 "show" before you added this "show PTP clock" command 13 to the software? 14 A Yes. 15 Q Okay. You were familiar that other commands 16 used the first word of "show" to display information 17 before you added the "show PTP clock" command; 18 correct? 19 A Yes. 10 Okay. So you you simply followed what 20 Q Okay. So you you simply followed what 21 other commands were doing when you chose the word 22 "show" in "show PTP clock"; is that right? 9 MR. PAK: Objection; vague. 10 THE WITNESS: Can you refer me to that page. 11 MR. WONG: Sure, sure, absolutely. 12 Q I think it's on page 53 of Exhibit 93. It's 13 in that sentence maybe two-thirds of the way down on 14 page 53 that starts with: 15 "Ordinary and boundary clocks may keep statistics." 16 statistics." 17 A Uh-huh. 18 "Using the following attribute." 19 Okay. 20 Q So you would agree that, in the IEEE standard, it uses the term parent as shorthand for parent clock?	7	referring to the clock that is defined in the PTP	7	Q And another shorthand used by the IEEE
10 Q Now, the the word "show" in that command, 11 were there other commands in iOS that used the word 12 "show" before you added this "show PTP clock" command 13 to the software? 14 A Yes. 15 Q Okay. You were familiar that other commands 16 used the first word of "show" to display information 17 before you added the "show PTP clock" command; 18 correct? 19 A Yes. 10 Okay. So you you simply followed what 20 Q Okay. So you you simply followed what 21 other commands were doing when you chose the word 22 "show" in "show PTP clock"; is that right? 10 THE WITNESS: Can you refer me to that page. MR. WONG: Sure, sure, absolutely. Q I think it's on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 that starts with: "Ordinary and boundary clocks may keep statistics." A Uh-huh. "Using the following attribute." Okay. Q So you would agree that, in the IEEE standard, it uses the term parent as shorthand for parent clock?	8	standard; correct?	8	standard for parent clock is simply parent; correct?
were there other commands in iOS that used the word "show" before you added this "show PTP clock" command to the software? A Yes. Q Okay. You were familiar that other commands used the first word of "show" to display information before you added the "show PTP clock" command; correct? A Yes. Q Okay. So you you simply followed what other commands were doing when you chose the word when the word of the word of the way down on page 53 that starts with: "Ordinary and boundary clocks may keep statistics." A Uh-huh. "Using the following attribute." Okay. Q So you would agree that, in the IEEE standard, it uses the term parent as shorthand for parent clock?	9	A Yes, it means the clock.	9	MR. PAK: Objection; vague.
12 "show" before you added this "show PTP clock" command 13 to the software? 14 A Yes. 15 Q Okay. You were familiar that other commands 16 used the first word of "show" to display information 17 before you added the "show PTP clock" command; 18 correct? 19 A Yes. 20 Q Okay. So you you simply followed what 21 other commands were doing when you chose the word 22 "show" in "show PTP clock"; is that right? 12 Q I think it's on page 53 of Exhibit 93. It's in that sentence maybe two-thirds of the way down on page 53 that starts with: 16 "Ordinary and boundary clocks may keep statistics." 17 A Uh-huh. 18 "Using the following attribute." Okay. 20 Q So you would agree that, in the IEEE 21 standard, it uses the term parent as shorthand for parent clock?	10	Q Now, the the word "show" in that command,	10	THE WITNESS: Can you refer me to that page.
to the software? 13 in that sentence maybe two-thirds of the way down on 14 A Yes. 15 Q Okay. You were familiar that other commands 16 used the first word of "show" to display information 17 before you added the "show PTP clock" command; 18 correct? 19 A Yes. 20 Q Okay. So you you simply followed what 21 other commands were doing when you chose the word 22 "show" in "show PTP clock"; is that right? 13 in that sentence maybe two-thirds of the way down on 14 page 53 that starts with: 15 "Ordinary and boundary clocks may keep 16 statistics." 17 A Uh-huh. 18 "Using the following attribute." 19 Okay. 20 Q So you would agree that, in the IEEE 21 standard, it uses the term parent as shorthand for 22 parent clock?	11	were there other commands in iOS that used the word	11	MR. WONG: Sure, sure, absolutely.
14	12	"show" before you added this "show PTP clock" command	12	
14	13		13	in that sentence maybe two-thirds of the way down on
used the first word of "show" to display information before you added the "show PTP clock" command; A Uh-huh. Respond to the property of the property of the property of the property of the parent as shorthand for parent clock? In the property of the p	14	A Yes.	14	
before you added the "show PTP clock" command; 18 correct? 19 A Yes. 20 Q Okay. So you you simply followed what 21 other commands were doing when you chose the word 22 "show" in "show PTP clock"; is that right? 17 A Uh-huh. 18 "Using the following attribute." 19 Okay. 20 Q So you would agree that, in the IEEE 21 standard, it uses the term parent as shorthand for parent clock?	15	Q Okay. You were familiar that other commands	15	"Ordinary and boundary clocks may keep
before you added the "show PTP clock" command; correct? A Uh-huh. Wising the following attribute." Okay. Okay. Okay. Okay. So you you simply followed what other commands were doing when you chose the word wishow" in "show PTP clock"; is that right? In A Uh-huh. Okay.	16	used the first word of "show" to display information	16	statistics."
18 correct? 19 A Yes. 20 Q Okay. So you you simply followed what 21 other commands were doing when you chose the word 22 "show" in "show PTP clock"; is that right? 18 "Using the following attribute." 19 Okay. 20 Q So you would agree that, in the IEEE 21 standard, it uses the term parent as shorthand for parent clock?	17		17	A Uh-huh.
Q Okay. So you you simply followed what 20 Q So you would agree that, in the IEEE 21 other commands were doing when you chose the word 22 "show" in "show PTP clock"; is that right? 20 Q So you would agree that, in the IEEE 21 standard, it uses the term parent as shorthand for 22 parent clock?	18	-	18	"Using the following attribute."
other commands were doing when you chose the word 21 standard, it uses the term parent as shorthand for 22 "show" in "show PTP clock"; is that right? 22 parent clock?	19		19	Okay.
other commands were doing when you chose the word 21 standard, it uses the term parent as shorthand for 22 "show" in "show PTP clock"; is that right? 22 parent clock?	20	Q Okay. So you you simply followed what	20	Q So you would agree that, in the IEEE
22 "show" in "show PTP clock"; is that right? 22 parent clock?	21		21	standard, it uses the term parent as shorthand for
-	22		22	parent clock?
25 Mrk. PAK: Objection; assumes facts not in 23 A 1 es.	23	MR. PAK: Objection; assumes facts not in	23	A Yes.
evidence; mischaracterizes the witness' testimony.	24		24	Q Okay. Do you know if commands that use the
MR. WONG: Q. If anything that I'm saying 25 word "show" were used before they were used in Cisco's	25	· · · · · · · · · · · · · · · · · · ·	25	word "show" were used before they were used in Cisco's

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 48 of 122

	Page 213	Page 215
1	(WHEREUPON, the deposition ended	1 CERTIFICATE OF REPORTER
2	at 3:36 p.m.)	2 I, ANDREA M. IGNACIO, hereby certify that the
3	oOo	3 witness in the foregoing deposition was by me duly
4		4 sworn to tell the truth, the whole truth, and nothing
5		5 but the truth in the within-entitled cause;
6		6 That said deposition was taken in shorthand
7		by me, a disinterested person, at the time and place
8 9		8 therein stated, and that the testimony of the said
10		9 witness was thereafter reduced to typewriting, by 10 computer, under my direction and supervision;
11		That before completion of the deposition,
12		12 review of the transcript [x] was [] was not
13		13 requested. If requested, any changes made by the
14		deponent (and provided to the reporter) during the
15		15 period allowed are appended hereto.
16	•	16 I further certify that I am not of counsel or
17		17 attorney for either or any of the parties to the said
18		deposition, nor in any way interested in the event of
19		this cause, and that I am not related to any of the
20		20 parties thereto.
21 22		21 Dated: 01/29/2016 22
23		23 <%signature%>
24		24 ANDREA M. IGNACIO,
25		25 RPR, CRR, CCRR, CLR, CSR No. 9830
DEPENDANTAMENTA SON	THE EST COTT, AND PROPERTY OF THE PROPERTY OF THE EST COTT, AND TH	
	Page 214	
1	JURAT	
2	I TONG I III de bandor antifermeden nanelte.	
3 4	I, TONG LIU, do hereby certify under penalty of perjury, that I have read the foregoing	
5	transcript of my deposition in the matter of	
6	Cisco Systems, Inc., vs. Arista Networks, Inc.,	
7	taken on January 15, 2016; that I have made such	
8	corrections as appear noted herein in ink,	
9	initialed by me; that my testimony as contained	
10	herein, as corrected, is true and correct.	
11 12	DATED this day of,	
13	2015, at	
14	SIGNATURE OF WITNESS	
15		
16	NOTARIZATION (If Required)	
17	State of	
18	County of	
19	Subscribed and sworn to (or affirmed) before me on	
20	this day of, 20,	
21 22	by, proved to me on the basis of satisfactory evidence to be the person who	
23	appeared before me.	
24	Signature: (Seal)	
25	(00.11)	

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 49 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 49 of 122

```
Page 1
 1
                  UNITED STATES DISTRICT COURT
 2
                 NORTHERN DISTRICT OF CALIFORNIA
 3
                         SAN JOSE DIVISION
 4
 5
      CISCO SYSTEMS, INC.,
 6
                    Plaintiff,
                                  ) Case No.
 7
                                  ) 5:14-cv-05344-BLF (PSG)
               vs.
       ARISTA NETWORKS, INC.,
 8
 9
                    Defendant.
10
11
12
            HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY
13
14
15
            VIDEOTAPED DEPOSITION OF KIRK LOUGHEED
                       Palo Alto, California
16
17
                     Friday, November 20, 2015
                            Volume I
18
19
20
21
22
      Reported by:
      CARLA SOARES
23
      CSR No. 5908
24
      Job No. 2187110
25
      Pages 1 - 189
```

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 50 of 122

		1	
1	UNITED STATES DISTRICT COURT	1	APPEARANCES (Continued):
2	NORTHERN DISTRICT OF CALIFORNIA	2	THE THE HOLD (COMMODA).
3	SAN JOSE DIVISION	1	Fourth a Defendant
4		3	For the Defendant:
5	CISCO SYSTEMS, INC.,)	4	KEKER & VAN NEST LLP
)	5	BY: BRIAN L. FERRALL, Attorney at Law
6	Plaintiff,)	6	BY: RYAN WONG, Attorney at Law
) Case No.	7	633 Battery Street
7	vs.) 5:14-cv-05344-BLF (PSG)	8	San Francisco, California 94111
	A DIGETA NECESTACRICA (N.C.)	9	415,391,5400
8	ARISTA NETWORKS, INC.,)	10	bferrall@kvn.com
9	Defendant.)	11	rwong@kvn.com
_)	12	Twong@kvii.com
10		1	AY GO PREGENTE G. G. A MILL O. A
11		13	ALSO PRESENT: Sean Grant, Video Operator
12		14	000
13		15	
14		16	
15		17	
16	VIDEOTAPED DEPOSITION OF KIRK LOUGHEE	D, ₁₈	
17	Volume I, taken on behalf of Defendant, at	19	
18 19	650 Page Mill Road, Palo Alto, California, beginning at 9:19 a.m., and ending at 6:15 p.m., on Friday,	20	
20	November 20, 2015, before CARLA SOARES, Certified	21	
21	Shorthand Reporter No. 5908.	22	
22	Shortishing responds the byon	į.	
23		23	
24		24	
25	D 0	25	D 4
	Page 2		Page 4
1	APPEARANCES:	1	INDEX
2		2	WITNESS
3	For the Plaintiff and the Witness:	3	KIRK LOUGHEED EXAMINATION
4	QUINN EMANUEL URQUHART & SULLIVAN, LI		Volume I
5	BY: JOHN (JAY) NEUKOM, Attorney at Law	4	V OIGHIO I
	• • • • • • • • • • • • • • • • • • • •	5	BY MR. FERRALL 10
6	50 California Street, 22nd Floor	6	DI MICI ENGLEE
7	San Francisco, California 94111	7	EXHIBITS
8	415.875.6341	8	NUMBER DESCRIPTION PAGE
9	johnneukom@quinnemanuel.com	9	Exhibit 29 Document headed "Internet 73
10	and	10	
11	KIRKLAND & ELLIS LLP		Protocol,"
12	BY: JOSHUA L. SIMMONS, Attorney at Law	11	Bates ARISTANDCA0031553 - 1601
13	601 Lexington Avenue	12	E 1714 20 D
14	New York, New York 10022	13	Exhibit 30 Document headed "DoD Internet 73
15	212-446-4989	14	Host Table Specification"
16	joshua.simmons@kirkland.com	15	
17	Joonston	16	Exhibit 31 Document headed "An Ethernet 73
18		17	Address Resolution Protocol or
		18	Converting Network Protocol
19		19	Addresses to 48.bit Ethernet
20		20	Address for Transmission on
21		21	Ethernet Hardware,"
22		22	Bates ARISTANDCA0003130 - 1639
23		23	
24		24	
25		25	
	Page 3		Page 5

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 51 of 122

			1	
1	EXHIBITS		1	EXHIBITS
2	NUMBER DESCRIPTION	PAGI	2	NUMBER DESCRIPTION PAGE
3	Exhibit 32 Document headed "Address	85	3	Exhibit 43 Document entitled "DECbrouter 90 18
4	Resolution Protocol (ARP) module		4	Products," Bates CSI-ANI-00081683 -
5	for the Yeager gateway"		5	1683,000344
6	<i>2 2 .</i>		6	
7	Exhibit 33 Email string, top email to Kirk	89	7	000
8	Lougheed and Paula Labloner from		8	
9	Mike Sanchez, dated 11-17-14,		9	
10	Bates CSI-CLI-01326834 - 6837		10	
11			11	
12	Exhibit 34 Email string, top email to Phillip	93	12	
13	Remaker from Kirk Lougheed, dated	75	13	
14	3-30-10, Bates CSI-CLI-01317865 -		14	
15	7866		15	
16	7000		16	
17	Exhibit 35 Email string, top email to Joe	100	17	
18	Hielscher from Kirk Lougheed,		18	
19	dated 7-23-08,		19	
20	Bates CSI-CLI-01134849 - 4850	Ì	20	
21	Bates C31-CE1-01134649 - 4650		21	
22	Exhibit 36 Document entitled "Stanford	101	22	
23	Ethertip/Gateway User and	101	23	
24	Configuration Guide,"		24	
25	Bates CSI-CLI-01315523 - 5568	j	25	
23	Pag	e 6	2.5	Page 8
1	EXIIDIZA		1	Dala Alta California 00:27:04
1	EXHIBITS	D 4 CT	1	Palo Alto, California 08:37:04
2		PAGE		Friday, November 20, 2015
3	Exhibit 37 Document entitled "cisco Systems	106		9:19 a.m.
4	AGS User Manual,"		4	DROCEEDINGS 00.27.10
5	Bates CSI-CLI-00358166 - 8223		5	PROCEEDINGS 08:37:10
6	Dilition B. H. C. H. Britis		6	THE VIDEO OPERATOR: Good morning. We're
7	Exhibit 38 Email string, top email to Phillip	122	7	on the record. The time is 9:19 a m., and the date
8	Remaker from Kirk Lougheed, dated	1	8	is November 20th, 2015. This begins the videotaped
9	12-11-08, Bates CSI-ANI-00043306 -		9	deposition of Kirk Lougheed.
10	3306.000001		10	My name is Sean Grant, here with our court 09:19:25
11	T 1114.00 D		11	reporter, Carla Soares. We're here from Veritext
12		52	12	Legal Solutions at the request of counsel for
13	Response to Arista's Interrogatory		13	defendant.
14	No. 16 Amended Exhibit D1 (IOS		14	This deposition is being held at Wilson
15	Release 11.0)"		15	Sonsini in Palo Alto, California. The caption of 09:19:34
16			16	this case is Cisco Systems, Inc., versus Arista
17		160	17	Networks, Inc., Case No. 5:14-CV-05344-BLF,
18	Lougheed, dated 3-6-96,		18	Please note that audio- and
19	Bates CSI-CLI-00746398		19	video-recording will take place unless all parties
20		1	20	have agreed to go off the record. Microphones are 09:19:5
21	Exhibit 41 Document described as source	162	21	sensitive and may pick up whispers, private
22	code file		22	conversations, or cellular interference.
23			23	At this time, will counsel please identify
24	Exhibit 42 Document described as code	177	24	themselves and state whom they represent.
25			25	MR, FERRALL: Brian Ferrall of Keker & 09:20:06
	Page	271		Page 9

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 52 of 122

1	right now. 12:58:39	1	calls for a conclusion. 13:03:06
2	Mr. Lougheed, you have to understand,	2	THE WITNESS: Documents whose name I do
3	we've got a lot to cover today, and I need to	3	not recall.
4	A And I'm also under oath, and I want to	4	BY MR. FERRALL:
5	make sure my replies to your answers (sic) are 12:58:]]7 5	Q Can you describe generally what they were? 13:03
6	correct.	6	A They were documents that described a
7	Q Okay. So I'm asking you you can put	7	packet format and described an associated state
8	the document down, frankly.	8	machine.
9	Do you ever recall reviewing an RFC for an	9	Q Is the address resolution protocol
10	address resolution protocol? 12:58:58	10	
11	A Yes, I do recall reviewing a document	11	A There's a general concept of an address
12	it may have been an RFC on address resolution.	12	resolution protocol, and then there's one, possibly
13	Q Do you know who developed address	13	
14	resolution protocols?	14	documents from the IETF.
15	A I don't recall. 12:59:20	15	Q When did you first hear have you ever 13:04:52
16	Q Did you contribute to that field?	16	heard the address resolution protocol abbreviated as
17	A No.	17	ARP?
18	Q All right. Do you know David Plummer?	18	A Yes.
19	A I have heard the name before but I don't	19	Q When did you first hear that abbreviation?
20	know the person. 12:59:31	20	A I don't recall I don't recall the 13:05:17
21	Q How many IETF RFCs have you authored in	21	precise time.
22	whole or in part?	22	Q Was it while you were still at Stanford?
23	A Two, maybe three.	23	A It certainly could have been.
24	Q What were the subject or subjects of those	24	Q Did you develop any features for the
25	RFCs? 13:00:07	25	address resolution protocol yourself? 13:05:52
	Page 78		Page 80
1	A They were all on the border gateway 13:00:09	1	MR NEUKOM: Objection Vague 13:05:56
2	protocol.	2	THE WITNESS: I do not understand your
3	Q Has Cisco ever had any policies about	3	question What do you mean, develop features for
4	their employees submitting RFCs to the IETF?	4	the address resolution protocol?
5	A I'm not aware of any specific policies. 13:01:02	5	BY MR FERRALL: 13:06:12
6	Q Did the software that you worked on at	6	Q Fair enough. Let me ask it a different
7	Stanford, the routing and terminal server software	7	way.
8	we talked about, did that include an address	8	Did you contribute to any IETF RFC
9	resolution protocol?	9	relating to the address resolution protocol?
10	MR. NEUKOM: Objection to form. Vague. 13:02:0	10	MR NEUKOM: Objection Asked and 13:06:27
11	BY MR. FERRALL:	11	answered
12	Q I should say an address resolution	12	THE WITNESS: No
13	protocol feature.	13	BY MR FERRALL:
14	MR. NEUKOM: Same objection.	14	Q Did you develop features at while at
15	THE WITNESS: Yes. 13:02:23	15	Cisco that relate to ARP, if you don't mind me using 13:06:-
16	BY MR. FERRALL:	16	the acronym?
17	Q And what were the sources of information	17	A I don't understand the question
18	for you in order to well, strike that.	18	Q Who is Glenn Truitt?
19	Did you write software for the address	19	A He's a at my time at Stanford, he was a
20	resolution protocol feature? 13:02:38	20	graduate student 13:08:37
21	A Yes.	21	Q Did you work with him while at Stanford?
22	Q And what were the sources of information	22	A Briefly
23	that you used to prepare that address resolution	23	Q In what capacity?
24	protocol feature?	24	A I recollect that he may have written a
25	MR. NEUKOM: Objection to form. Vague, 13:02:58	25	user guide to the software at the time, but that's 13:09:21

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 53 of 122

	MR. FERRALL: Let's mark this as the next 15:26:35	1	message indicates that you are looking at an error 15:29
2	exhibit.	2	message. An ancient operating system called TOPS-20
3	(Exhibit 38 was marked for identification	3	used such a convention and I adopted it."
4	and is attached hereto.)	4	Do you see that?
5	BY MR. FERRALL: 15:26:37	5	A Yeah, I do see that. 15:29:59
6	Q Exhibit 38 is a set of emails between you	6	Q Why did you adopt a TOPS-20 convention?
7	and Mr. Remaker, among others. It bears control	7	A Of the possibilities that I had, that
8	numbers CSI-ANI-00043306.	8	seemed that seemed a reasonable to me, it
9	A Okay. I'd like to read this.	9	seemed like a reasonable way of doing things.
10	Q First let me ask you the question so you 15:27:19	10	Q Did you get permission from Digital 15:30:32
11	know what to look for.	11	Equipment Company to use that convention?
12	A I will forget the question by the time I'm	12	MR. NEUKOM: Objection. Calls for a legal
13	done reading this.	13	conclusion and misstates prior testimony.
14	Q Well, Mr. Lougheed, that's not the way it	14	THE WITNESS: No, I did not seek
15	works, actually. I ask the question and you answer 15:27:	28 15	permission. 15:30:55
16	it.	16	BY MR. FERRALL:
17	A Okay	17	Q Have you ever heard of the acronym RIP in
18	Q If you can't answer it, then you tell me.	18	the context of networking?
19	My only question is, did you send the	19	A It typically means routing information
20	email that's at the top of Exhibit 38, the one at 15:27:38	20	protocol. 15:31:18
21	12-11-2008 at 10:14 p.m.?	21	Q You're familiar with that protocol?
22	MR. NEUKOM: Mischaracterizes the document	22	A It's been a while, but yes, I'm familiar
23	on its face.	23	with it.
	And I know that Mr. Ferrall would like you	24	
24		25	Q Did you make up the acronym RIP for routing information protocol? 15:31:32
25	to feel comfortable to read the page-and-a-half 15:27:54 Page 122	23	Page 124
1	document that he's just put in front of you before 15:27:57	1	A No, I did not make up that acronym. 15:31:37
2	answering his question.	2	Q Did you make up the term "routing
3	THE WITNESS: Okay. I'll read it.	3	information protocol"?
4	·	4	A No.
	MR. FERRALL: Actually, no, I would like him to answer the question. 15:28:03	5	
5		6	
6	Q Are you telling me you can't tell me		information protocol?
7	whether you sent the email?	7	A No.
8	MR. NEUKOM: It's a totally unfair	8	Q Do you know who did?
9	question. The email that he sent would necessarily	9	A No, I don't know who did.
10	include everything that follows. 15:28:10	10	Q Did you ever ask permission from the 15;32:2
11	If you want him to tell you whether he	11	person who made up the term "RIP" for permission to
	and the second state and the second state of t	12	use it, to use that term?
12	remembers this or whether he sent it, let him read		•
	the document. Come on, Brian.	13	MR. NEUKOM: Objection. Foundation,
12			MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion.
12 13	the document. Come on, Brian.	13 14	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion.
12 13 14	the document. Come on, Brian. It's a page and a half. We're not talking	13 14	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion.
12 13 14 15	the document. Come on, Brian. It's a page and a half. We're not talking about him wasting 30 minutes to read a product 15:28:20	13 14 15	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion. THE WITNESS: There was no one whose 15:32:
12 13 14 15	the document. Come on, Brian. It's a page and a half. We're not talking about him wasting 30 minutes to read a product manual. It's a page-and-a-half email. The witness	13 14 15 16	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion. THE WITNESS: There was no one whose permission one could ask.
12 13 14 15 16	the document. Come on, Brian. It's a page and a half. We're not talking about him wasting 30 minutes to read a product manual. It's a page-and-a-half email. The witness has said he wants to read it, and we're going to let	13 14 15 16 17	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion. THE WITNESS: There was no one whose permission one could ask. BY MR. FERRALL:
12 13 14 15 16 17	the document. Come on, Brian. It's a page and a half. We're not talking about him wasting 30 minutes to read a product manual. It's a page-and-a-half email. The witness has said he wants to read it, and we're going to let him read it.	13 14 15 16 17 18	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion. THE WITNESS: There was no one whose 15:32: permission one could ask. BY MR. FERRALL: Q Well, I'll tell you, a Mr. Charles Hedrick at Rutgers submitted what I believe to be the first
12 13 14 15 16 17 18	the document. Come on, Brian. It's a page and a half. We're not talking about him wasting 30 minutes to read a product manual. It's a page-and-a-half email. The witness has said he wants to read it, and we're going to let him read it. THE WITNESS: Okay. I've read it.	13 14 15 16 17 18	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion. THE WITNESS: There was no one whose permission one could ask. BY MR. FERRALL: Q Well, I'll tell you, a Mr. Charles Hedrick at Rutgers submitted what I believe to be the first
12 13 14 15 16 17 18 19	the document. Come on, Brian. It's a page and a half. We're not talking about him wasting 30 minutes to read a product manual. It's a page-and-a-half email. The witness has said he wants to read it, and we're going to let him read it. THE WITNESS: Okay. I've read it. BY MR. FERRALL: 15:29:28	13 14 15 16 17 18 19 20	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion. THE WITNESS: There was no one whose permission one could ask. BY MR. FERRALL: Q Well, I'll tell you, a Mr. Charles Hedrick at Rutgers submitted what I believe to be the first RFC on the routing information protocol. 15:33:0
12 13 14 15 16 17 18 19 20 21	the document. Come on, Brian. It's a page and a half. We're not talking about him wasting 30 minutes to read a product manual. It's a page-and-a-half email. The witness has said he wants to read it, and we're going to let him read it. THE WITNESS: Okay. I've read it. BY MR. FERRALL: Q Okay. Did you send this email that's	13 14 15 16 17 18 19 20 21	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion. THE WITNESS: There was no one whose permission one could ask. BY MR. FERRALL: Q Well, I'll tell you, a Mr. Charles Hedrick at Rutgers submitted what I believe to be the first RFC on the routing information protocol. Do you know Mr. Hedrick?
12 13 14 15 16 17 18 19 20 21	the document. Come on, Brian. It's a page and a half. We're not talking about him wasting 30 minutes to read a product manual. It's a page-and-a-half email. The witness has said he wants to read it, and we're going to let him read it. THE WITNESS: Okay. I've read it. BY MR. FERRALL: Q Okay. Did you send this email that's dated December 11, 2008, at 10:14 p.m.?	13 14 15 16 17 18 19 20 21 22	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion. THE WITNESS: There was no one whose permission one could ask. BY MR. FERRALL: Q Well, I'll tell you, a Mr. Charles Hedrick at Rutgers submitted what I believe to be the first RFC on the routing information protocol. Do you know Mr. Hedrick? A 1 do.

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 54 of 122

1	answered. 15:33:15		1	MR. NEUKOM: Objection. Compound, vague.	15:37
2	THE WITNESS: Mr. Hedrick formally		2	THE WITNESS: we did not make any such	
3	documented an informal standard that was already in		3	assertions.	
4	use in the industry for a number of years.		4	MR. NEUKOM: And foundation.	
5	BY MR. FERRALL: 15:33:27	ļ	5	BY MR. FERRALL: 15:37:08	
6	Q And what's the significance of that?		6	Q Did you ever have an agreement with	
7	MR. NEUKOM: Objection. Calls for		7	Mr. Rekhter about the right to use any of his	
8	speculation.		8	contributions to the BGP work that you guys did?	
9	THE WITNESS: It wouldn't have occurred to	1	9	MR. NEUKOM: Vague, compound, calls for a	
10	me to ask him for permission. 15:33:47		10	legal conclusion 15:37:44	
11	BY MR. FERRALL:		11	THE WITNESS: Could you	
12	Q I think you testified earlier that you	ļ	12	MR. NEUKOM: and mischaracterizes prior	
13	submitted several RFCs for the border gateway		13	testimony.	
14	protocol, correct?		14	THE WITNESS: Could you repeat the	
15	A Correct. 15:34:07		15	question, please? 15:37:59	
16	Q And your co-author on at least the first		16	BY MR. FERRALL:	
17	such RFC was a Mr. Yakov Rekhter, correct?		17	Q Sure, I'll ask a slightly different	
18	A Correct.		18	question.	
19	Q Was he your co-author on the subsequent		19	Did you ever ask permission from	
20	submissions, too, do you know? 15:34:3	1	20	Mr. Rekhter to use any of his contributions to the	15:38:6
21	A Certainly on the second one. I don't		21	BGP project?	
22	recall on the third one. And after that, there were		22	MR. NEUKOM: Objection. Vague, compound,	
23	other co-authors.		23	calls for a legal conclusion.	
24	O And where does Mr. Rekhter or did		24	THE WITNESS: We did not seek permission	
25	Mr. Rekhter work at the time? 15:34:5		25	•	:38:26
	Page 126			Page	
1	A He worked for IBM. 15:34:52		1	BY MR. FERRALL: 15:38:	30
2	Q What was Mr. Rekhter's contribution to the		2	Q Ohay. IBM didn't ask you for permission,	
3	BGP RFC? The first one?		3	either, correct?	
4	A We were co-designers.		4	A No.	
5	Q Are you able to describe what he 15:35:28		5	Q One of the CLI terms in this case is the	5:39:20
6	contributed as opposed to what you contributed?		6	term "IP address."	
7	A No. We worked closely together.		7	Are you familiar with that?	
8	Q Do you know whether you ever made any		8	A I'm familiar with the command expression	
9	declarations to the IETF concerning copyrights that		9	"IP address."	
10	Cisco claimed in any of the language in the first 15:35:	57			15;39;3
11	BGP RFC?		11	address"?	10,07,0
12	MR. NEUKOM: Objection. Vague, compound.		12	A When Cisco came out of Stanford, we were	
12	THE WITNESS: To the best of my		13	shipping an IP an Internet protocol only router.	
	THE WITHESS. TO the best of thy				
13	regularian wa made no convicts deline in the	- 1	L 4	And there was a command "address" that took some	
13 14	recollection, we made no copyright claims in the		1 0	organizate 15:40:10	
13 14 15	first BGP RFC. 15:36:17	1	15	arguments. 15:40:12	
13 14 15 16	first BGP RFC. 15:36:17 BY MR. FERRALL:	1	16	And after after a while, we started	
13 14 15 16	first BGP RFC. 15:36:17 BY MR. FERRALL: Q Did Cisco make any disclosures to the IETF	1 1 1	L6 L7	And after after a while, we started adding other protocols to the software. The first	
13 14 15 16 17	first BGP RFC. 15:36:17 BY MR. FERRALL: Q Did Cisco make any disclosures to the IETF regarding copyright claims in any of the BGP RFCs?	1 1 1	L6 L7 L8	And after after a while, we started adding other protocols to the software. The first one was "DECnet." And since "address" was already	
13 14 15 16 17 18	first BGP RFC. 15:36:17 BY MR. FERRALL: Q Did Cisco make any disclosures to the IETF regarding copyright claims in any of the BGP RFCs? MR. NEUKOM: Objection. Compound, vague.	1 1 1 1	16 17 18 19	And after after a while, we started adding other protocols to the software. The first one was "DECnet." And since "address" was already taken to refer to IP functionality, Internet	16.46
13 14 15 16 17 18 19 20	first BGP RFC. 15:36:17 BY MR. FERRALL: Q Did Cisco make any disclosures to the IETF regarding copyright claims in any of the BGP RFCs? MR. NEUKOM: Objection. Compound, vague. THE WITNESS: Not to my knowledge. 15:36:3	1 1 1 1 5 2	L6 L7 L8 L9	And after after a while, we started adding other protocols to the software. The first one was "DECnet." And since "address" was already taken to refer to IP functionality, Internet protocol functionality, we came up with "DECnet	15:40:
13 14 15 16 17 18 19 20 21	first BGP RFC. 15:36:17 BY MR. FERRALL: Q Did Cisco make any disclosures to the IETF regarding copyright claims in any of the BGP RFCs? MR. NEUKOM: Objection. Compound, vague. THE WITNESS: Not to my knowledge. 15:36:3: BY MR. FERRALL:	1 1 1 1 5 2	16 17 18 19 20	And after after a while, we started adding other protocols to the software. The first one was "DECnet." And since "address" was already taken to refer to IP functionality, Internet protocol functionality, we came up with "DECnet address," and then had a DECnet address after it.	15:40:
13 14 15 16 17 18 19 20	first BGP RFC. 15:36:17 BY MR. FERRALL: Q Did Cisco make any disclosures to the IETF regarding copyright claims in any of the BGP RFCs? MR. NEUKOM: Objection. Compound, vague. THE WITNESS: Not to my knowledge. 15:36:3: BY MR. FERRALL: Q Did you ever make a disclosure to the	1 1 1 1 5 2 2	16 17 18 19 20 21	And after after a while, we started adding other protocols to the software. The first one was "DECnet." And since "address" was already taken to refer to IP functionality, Internet protocol functionality, we came up with "DECnet address," and then had a DECnet address after it. That "DECnet address" command could have	15:40:
13 14 15 16 17 18 19 20 21	first BGP RFC. 15:36:17 BY MR. FERRALL: Q Did Cisco make any disclosures to the IETF regarding copyright claims in any of the BGP RFCs? MR. NEUKOM: Objection. Compound, vague. THE WITNESS: Not to my knowledge. 15:36:3: BY MR. FERRALL:	11 11 13 13 15 22 22 22	16 17 18 19 20 21 22	And after after a while, we started adding other protocols to the software. The first one was "DECnet." And since "address" was already taken to refer to IP functionality, Internet protocol functionality, we came up with "DECnet address," and then had a DECnet address after it. That "DECnet address" command could have very well have said "address," and then DECnet	15:40:
13 14 15 16 17 18 19 20 21	first BGP RFC. 15:36:17 BY MR. FERRALL: Q Did Cisco make any disclosures to the IETF regarding copyright claims in any of the BGP RFCs? MR. NEUKOM: Objection. Compound, vague. THE WITNESS: Not to my knowledge. 15:36:3: BY MR. FERRALL: Q Did you ever make a disclosure to the	11 11 13 13 13 13 22 22 22 22 22	16 17 18 19 20 21	And after after a while, we started adding other protocols to the software. The first one was "DECnet." And since "address" was already taken to refer to IP functionality, Internet protocol functionality, we came up with "DECnet address," and then had a DECnet address after it. That "DECnet address" command could have	15:40: 15:41:

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 55 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 55 of 122

1	address we were referring to. But we chose "DECnet 15:41:	13 1	referring to? 15:44:36
2	address."	2	A That was the aesthetic choice I made.
3	It became clear that much more that we	3	MR. NEUKOM: Objection. Mischaracterizes
4	were becoming a multi-protocol router. We were	4	prior testimony.
5	adding other protocols into the box, into the 15:41:27	5	THE WITNESS: There were many possible 15:44:
6	software.	6	ways of doing it. As I indicated, I could perhaps
7	And I had I value I value the	7	take a look at an address and then infer what it
8	aesthetic of having a symmetric-looking command line	8	was. But that was not the choice that I made at the
9	expression, symmetric hierarchy. It was clear we	9	time.
10	were heading towards a hierarchy. 15:41:52	10	BY MR. FERRALL: 15:45:07
11	So at some point after DECnet and perhaps	11	Q What were the alternative commands that
12	a few other protocols to make things look very	12	you considered for "IP host"?
13	similar, we started prefacing our IP-only commands	13	A "Name." "Name" was certainly one of the
14	with "IP." And that gave a very what I thought	14	possible candidates. "Network system" or
15	was a very elegant, symmetric, elegant way of 15:42:16	15	"system" there are many, many words that one 15:45:5
16	referring to different protocols within a	16	could use to refer to all sorts of different things.
17	multi-protocol router.	17	Q Okay. But now you're talking about
18	So that is the history of the "IP address"	18	alternatives for the word "host," right?
19	command.	19	A Um-hum.
20	Q Okay. My question was simpler. I 15:42:36	20	Q Okay. You didn't you're not the first 15:46:08
21	appreciate that answer. But my question was a	21	one to use the word "host," are you?
22	little simpler than that, but let me ask it a	22	A No.
23	different way.	23	Q I mean, "host" had been used for well
24	You had heard of the term "IP address"	24	before you joined Cisco to refer to a computer host.
25	before you joined Cisco, hadn't you? 15:42:51	25	It's a conventional term, right? 15:46:29
	Page 130		Page 132
1	MR. NEUKOM: Objection. Vague and asked 15:42:	59 1	MR NEUKOM: Objection Vague, compound, 15:46:31
2	and answered.	2	foundation, and calls for opinion testimony
3	THE WITNESS: I suppose I had. When one	3	THE WITNESS: It was one of the
4	is talking about different networking protocols, one	4	possibilities that I had that I had
5	needs to clarify which networking protocol one is 15:43:10	5	BY MR FERRALL: 15:46:46
6	talking about. So it was probably terminology that	6	Q And "host" was the term that was used in
7	was in the air.	7	the commands in the software that came from
8	BY MR. FERRALL:	8	Stanford; is that right?
9		9	MR NEUKOM: Objection Mischaracterizes
10	Q Does the same go for "IP host," also? You had heard that before you joined Cisco? 15:43:29	10	prior testimony 15:47:13
11		11	THE WITNESS: 1 had implemented the "host"
	MR. NEUKOM: Objection. Misstates prior	12	command while I was at Stanford
12	testimony.		· ·
13	THE WITNESS: The original form of the	13	BY MR FERRALL:
1 /	"host" command was just "host command." It was	14	Q Okay. And what did you so did you
		15	decide to use the word "host" for the command on the 15:47
15	another one that had to distinguish, in a 15:43:41		software you worked at while you were employed by
15 16	multi-protocol world, in a multi-protocol piece of	16	
15 16 17	multi-protocol world, in a multi-protocol piece of software, what you were talking about.	17	Stanford?
15 16 17 18	multi-protocol world, in a multi-protocol piece of software, what you were talking about. It would have looked very odd in a	17 18	Stanford? MR NEUKOM: Objection Vague
15 16 17 18	multi-protocol world, in a multi-protocol piece of software, what you were talking about. It would have looked very odd in a multi-protocol router that there was one protocol	17 18 19	Stanford? MR NEUKOM: Objection Vague THE WITNESS: Could you restate that
15 16 17 18 19	multi-protocol world, in a multi-protocol piece of software, what you were talking about. It would have looked very odd in a multi-protocol router that there was one protocol that wasn't prefaced by a some descriptive 15:44:03	17 18 19 20	Stanford? MR NEUKOM: Objection Vague THE WITNESS: Could you restate that question? 15:47:50
15 16 17 18 19 20	multi-protocol world, in a multi-protocol piece of software, what you were talking about. It would have looked very odd in a multi-protocol router that there was one protocol that wasn't prefaced by a some descriptive 15:44:03 keyword.	17 18 19 20 21	Stanford? MR NEUKOM: Objection Vague THE WITNESS: Could you restate that question? 15:47:50 BY MR FERRALL:
15 16 17 18 19 20 21	multi-protocol world, in a multi-protocol piece of software, what you were talking about. It would have looked very odd in a multi-protocol router that there was one protocol that wasn't prefaced by a some descriptive theyword. BY MR. FERRALL:	17 18 19 20 21 22	Stanford? MR NEUKOM: Objection Vague THE WITNESS: Could you restate that question? BY MR FERRALL: Q Sure.
14 15 16 17 18 19 20 21 22 23	multi-protocol world, in a multi-protocol piece of software, what you were talking about. It would have looked very odd in a multi-protocol router that there was one protocol that wasn't prefaced by a some descriptive 15:44:03 keyword. BY MR. FERRALL: Q Following up on that, the purpose of your	17 18 19 20 21 22 23	Stanford? MR NEUKOM: Objection Vague THE WITNESS: Could you restate that question? BY MR FERRALL: Q Sure. For the software that — strike that.
15 16 17 18 19 20 21	multi-protocol world, in a multi-protocol piece of software, what you were talking about. It would have looked very odd in a multi-protocol router that there was one protocol that wasn't prefaced by a some descriptive theyword. BY MR. FERRALL:	17 18 19 20 21 22	Stanford? MR NEUKOM: Objection Vague THE WITNESS: Could you restate that question? 15:47:50 BY MR FERRALL: Q Sure.

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 56 of 122

		T	
1	interface, and it would as a packet that was 16:12:12	ļ	the like, or "database lookup" or 16:16:59
2	being sent sent out that interface, it could	2	BY MR FERRALL:
3	either be permitted or denied going through that	3	Q Did you coin the term "domain lookup"?
4	interface.	4	A I decided to use that as a command
5	Those were the two original uses of the 16:12:29	5	expression within the software, yes 16:17:21
6	"access list" command expression.	6	Q I'll ask the question one more time. I'm
7	Q Do you believe that you coined the term	7	asking you if you coined the term "domain lookup."
8	"access list"?	8	MR NEUKOM: Objection Asked and
9	A It was my choice to use that description.	9	answered and vague
10	Q Well, I'm asking you if you coined that 16:12:	6 10	THE WITNESS: 1 did not 16:17:43
11	term, or had you ever heard that term before in the	11	BY MR FERRALL:
12	context of networking?	12	Q Do you know who did?
13	MR. NEUKOM: Objection. Vague, compound,	13	A No idea
14	asked and answered.	14	Q When was to your knowledge, when was
15	THE WITNESS: I do not believe that I had 16:13:1	3 15	the term "routing" ever used in conjunction with the 16:18:
16	heard the term before.	16	Internet protocol?
17	BY MR. FERRALL:	17	MR NEUKOM: Objection Vague and
18	Q Had you heard the term "IP access group"	18	foundation
19	before?	19	THE WITNESS: I don't know when the term
20	A Yes. 16:13:25	20	"routing" was used 16:19:05
21	Q Who coined that term, to your knowledge,	21	BY MR FERRALL:
22	do you know?	22	Q Were people in the field talking about
23	A I did.	23	routing in connection with IP before you joined
24	O Under what circumstances? Or for what	24	Cisco?
25	purpose, I should say? 16:13:39	25	MR NEUKOM: Objection Vague, compound 16:19:2
	Page 142		Page 144
1	A I doubt companies the great dataile but it 10:12:52	7	THE WITNESS: Yes 16:19:27
1 2	A I don't remember the exact details, but it 16:13:52 is either assigns an access list to an interface	1 2	BY MR FERRALL:
3	-	3	
	or I think it assigns an interface to a an		Q Tell me what, if anything, was creative
4 5	access list to an interface. I believe it's access	4 5	about your decision to use the term "IP routing" as
	class or something like that that assigns it to an 16:14:07		a CLI command. 16:19:51
6	interface or to a line number.	6	MR NEUKOM: Objection Calls for opinion
7	Q The term "domain name" is not a term that	7	testimony
8	you made up, is it?	8	THE WITNESS: At Stanford where we had
9	A No, I didn't make I no, I did not.	9	terminal servers and gateways in the same software,
10	Q "Domain name" is a term that goes back to 16:15:3		there were times when it was convenient just 16:20:26
11	the ARPANET, actually. Are you aware of that?	11	because something had multiple interfaces, it could
12	MR. NEUKOM: Objection. Foundation.	12	still perhaps be a terminal server. So I needed a
13	THE WITNESS: I would be unsurprised if it	13	way of turning off, disabling routing functionality
14	went back that far.	14	And I used the command I chose the
15	Are you referring to ARPANET protocols or 16:16:02	15	keyword configuration keyword command expression 16:21:
16	ARPANET network?	16	"routing" Then "no routing" would turn off routing
17	BY MR. FERRALL:	17	functionality in whatever software was running at
18	Q The ARPANET network,	18	the time despite its hardware configuration
19	A I believe the concept was introduced while	19	And then later on at Cisco, to keep the
20	the ARPANET network was still running. 16:16:15	20	keep the form of the hierarchy of commands, we added 16:21:35
21	Q What about the words "domain lookup"? Did	21	the we added our choice of we added "IP" in
22	you coin that term "domain lookup"?	22	front of it because you could potentially turn off
23	MR. NEUKOM: Objection. Vague.	23	other sorts of routing, or at least that was the
24	THE WITNESS: It's a parallel construction	24	that was the that was a possibility for other
25	to terms like "address lookup" or "host lookup" or 16:16:52	25	network protocols 16:22:02
	Page 143		Page 145

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 57 of 122

	BY MR. FERRALL: 17:55:19	1	interior routing protocols. And customer networks, 17:59
2	Q Mr. Lougheed, this is a document that	2	especially in the early days when they were attached
3	appears to be your work, according to the copyright	3	to the they had campus networks running one
4	notice on the front.	4	routing protocol, they'd be attached to the NSFNET
5	Do you see that? 17:55:29	5	backbone as well running a different routing 17:59:3
6	A Yes, I see that.	6	protocol.
7	Q Okay. Do you know when do you	7	And since routing protocols would give
8	recognize it?	8	incommensurate metrics, metrics that could not be
9	A Yes, I do.	9	compared, I developed a concept of distance that
10	Q What is it? 17:55:36	10	says if one routing protocol says it knows a route 18:00:0
11	A It's a file called "globs.h." It is	11	to one destination and another routing protocol says
12	declaring a set of variables that are used in the	12	it knows a route to that same destination, which
13	software.	13	the routing protocol with the smallest
14	Q And when did you compose what's	14	administrative distance would be the one that would
15	Exhibit 42? 17:56:02	15	be entered into the routing table. 18:00:24
16	A Is there a question?	16	And so that was the problem, and my
17	Q Yes. I asked when did you compose	17	solution was the administrative distance mechanism
18	Exhibit 42?	18	that I described.
19	A Apparently June of 1985.	19	And when I implemented BGP, that was a
20		5: 28 20	natural extension to include for BGP as well to be 18:00;
21		21	
22	time, right?	ļ	able to configure an administrative distance to
	A Correct.	22	determine the believability of BGP.
23	Q We had talked earlier about the ARP,	23	If no routing protocol if only one
24	address resolution protocol.	24	routing protocol knew the destination, you would
25	Do you remember that? 17:56:57 Page 178	25	believe that. If there are two or more, 18:01:10 Page 180
***************************************	3-	<u> </u>	
1	A Yes. 17:56:58	1	administrative distance was the tie-breaker. 18:01:16
2	Q Okay.	2	Q Sorry. I'm going to jump back to ARP.
3	A I remember you asked questions about that.	3	There's a term you use associated with
4	Q Are you familiar with there being a	4	ARP, "ARP cache." We talked about that earlier in
5	provision for time-outs in the ARP protocol? 17:57:1	5 5	looking at one of the "clear" commands, right? 18:01
		1	looking at one of the "clear" commands, right? 18:01
6	MR. NEUKOM: Objection. Vague and	6	Where did the term "ARP cache" come from?
6 7	MR. NEUKOM: Objection. Vague and compound.	1	
		6	Where did the term "ARP cache" come from?
7	compound.	6 7	Where did the term "ARP cache" come from? A The cache is a logically a list of
7 8	compound. THE WITNESS: There is the ARP entries can become stale. If you unplug the computer or you	6 7 8	Where did the term "ARP cache" come from? A The cache is a logically a list of items. An ARP cache would be a list of ARP requests
7 8 9	compound. THE WITNESS: There is the ARP entries can become stale. If you unplug the computer or you	6 7 8 9	Where did the term "ARP cache" come from? A The cache is a logically a list of items. An ARP cache would be a list of ARP requests that have been satisfied, including their MAC
7 8 9 10	compound. THE WITNESS: There is the ARP entries can become stale. If you unplug the computer or you move the computer somewhere else or you replace the 17:52	6 7 8 9 43 10	Where did the term "ARP cache" come from? A The cache is a logically a list of items. An ARP cache would be a list of ARP requests that have been satisfied, including their MAC addresses and how long since the last time we'd seen 18:02:3
7 8 9 10 11	compound. THE WITNESS: There is the ARP entries can become stale. If you unplug the computer or you move the computer somewhere else or you replace the network interface, entries will become stale.	6 7 8 9 743 10 11	Where did the term "ARP cache" come from? A The cache is a logically a list of items. An ARP cache would be a list of ARP requests that have been satisfied, including their MAC addresses and how long since the last time we'd seen a the router had seen an ARP request go by for
7 8 9 10 11	compound. THE WITNESS: There is the ARP entries can become stale. If you unplug the computer or you move the computer somewhere else or you replace the network interface, entries will become stale. Implementing a time-out is a way of making sure the	6 7 8 9 43 10 11 12	Where did the term "ARP cache" come from? A The cache is a logically a list of items. An ARP cache would be a list of ARP requests that have been satisfied, including their MAC addresses and how long since the last time we'd seen a the router had seen an ARP request go by for that particular source address.
7 8 9 10 11 12	compound. THE WITNESS: There is the ARP entries can become stale. If you unplug the computer or you move the computer somewhere else or you replace the network interface, entries will become stale. Implementing a time-out is a way of making sure the cache isn't stale.	6 7 8 9 43 10 11 12 13 14	Where did the term "ARP cache" come from? A The cache is a logically a list of items. An ARP cache would be a list of ARP requests that have been satisfied, including their MAC addresses and how long since the last time we'd seen a the router had seen an ARP request go by for that particular source address. That sort of computer science concept of a
7 8 9 10 11 12 13	compound. THE WITNESS: There is the ARP entries can become stale. If you unplug the computer or you move the computer somewhere else or you replace the network interface, entries will become stale. Implementing a time-out is a way of making sure the cache isn't stale. BY MR. FERRALL:	6 7 8 9 43 10 11 12 13 14	Where did the term "ARP cache" come from? A The cache is a logically a list of items. An ARP cache would be a list of ARP requests that have been satisfied, including their MAC addresses and how long since the last time we'd seen a the router had seen an ARP request go by for that particular source address. That sort of computer science concept of a cache is found all over. Q One of the commands that is indicated that 18:03:
7 8 9 10 11 12 13 14	compound. THE WITNESS: There is the ARP entries can become stale. If you unplug the computer or you move the computer somewhere else or you replace the network interface, entries will become stale. Implementing a time-out is a way of making sure the cache isn't stale. BY MR. FERRALL: Q Are you aware of there being a provision 17:58:1 for time-outs in the RFC for ARP?	6 7 8 9 43 10 11 12 13 14	Where did the term "ARP cache" come from? A The cache is a logically a list of items. An ARP cache would be a list of ARP requests that have been satisfied, including their MAC addresses and how long since the last time we'd seen a the router had seen an ARP request go by for that particular source address. That sort of computer science concept of a cache is found all over. Q One of the commands that is indicated that you authored is the command "boot system."
7 8 9 10 11 12 13 14 15	compound. THE WITNESS: There is the ARP entries can become stale. If you unplug the computer or you move the computer somewhere else or you replace the network interface, entries will become stale. Implementing a time-out is a way of making sure the cache isn't stale. BY MR. FERRALL: Q Are you aware of there being a provision for time-outs in the RFC for ARP? MR. NEUKOM: Objection. Vague and	6 7 8 9 43 10 11 12 13 14 15 16	Where did the term "ARP cache" come from? A The cache is a logically a list of items. An ARP cache would be a list of ARP requests that have been satisfied, including their MAC addresses and how long since the last time we'd seen a the router had seen an ARP request go by for that particular source address. That sort of computer science concept of a cache is found all over. Q One of the commands that is indicated that you authored is the command "boot system." Had you ever heard someone use the words
7 8 9 10 11 12 13 14 15 16 17	compound. THE WITNESS: There is the ARP entries can become stale. If you unplug the computer or you move the computer somewhere else or you replace the network interface, entries will become stale. Implementing a time-out is a way of making sure the cache isn't stale. BY MR. FERRALL: Q Are you aware of there being a provision for time-outs in the RFC for ARP? MR. NEUKOM: Objection. Vague and compound, asked and answered.	6 7 8 9 743 10 11 12 13 14 15 16 17	Where did the term "ARP cache" come from? A The cache is a logically a list of items. An ARP cache would be a list of ARP requests that have been satisfied, including their MAC addresses and how long since the last time we'd seen a the router had seen an ARP request go by for that particular source address. That sort of computer science concept of a cache is found all over. Q One of the commands that is indicated that you authored is the command "boot system." Had you ever heard someone use the words "boot system" together before you joined Cisco?
7 8 9 10 11 12 13 14 15 16 17 18	compound. THE WITNESS: There is the ARP entries can become stale. If you unplug the computer or you move the computer somewhere else or you replace the network interface, entries will become stale. Implementing a time-out is a way of making sure the cache isn't stale. BY MR. FERRALL: Q Are you aware of there being a provision for time-outs in the RFC for ARP? MR. NEUKOM: Objection. Vague and compound, asked and answered. THE WITNESS: I'm not I don't remember	6 7 8 9 243 10 11 12 13 14 0 15 16 17 18 19	Where did the term "ARP cache" come from? A The cache is a logically a list of items. An ARP cache would be a list of ARP requests that have been satisfied, including their MAC addresses and how long since the last time we'd seen a the router had seen an ARP request go by for that particular source address. That sort of computer science concept of a cache is found all over. Q One of the commands that is indicated that you authored is the command "boot system." Had you ever heard someone use the words "boot system" together before you joined Cisco? MR. NEUKOM: Objection. Vague.
7 8 9 10 11 12 13 14 15 16 17 18 19 20	compound. THE WITNESS: There is the ARP entries can become stale. If you unplug the computer or you move the computer somewhere else or you replace the network interface, entries will become stale. Implementing a time-out is a way of making sure the cache isn't stale. BY MR. FERRALL: Q Are you aware of there being a provision for time-outs in the RFC for ARP? MR. NEUKOM: Objection. Vague and compound, asked and answered. THE WITNESS: I'm not I don't remember such language right now. 17:58:38	6 7 8 9 243 10 11 12 13 14 15 16 17 18 19 20	Where did the term "ARP cache" come from? A The cache is a logically a list of items. An ARP cache would be a list of ARP requests that have been satisfied, including their MAC addresses and how long since the last time we'd seen a the router had seen an ARP request go by for that particular source address. That sort of computer science concept of a cache is found all over. Q One of the commands that is indicated that you authored is the command "boot system." Had you ever heard someone use the words "boot system" together before you joined Cisco? MR. NEUKOM: Objection. Vague. THE WITNESS: I had heard phrases like 18:03:45
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	compound. THE WITNESS: There is the ARP entries can become stale. If you unplug the computer or you move the computer somewhere else or you replace the network interface, entries will become stale. Implementing a time-out is a way of making sure the cache isn't stale. BY MR. FERRALL: Q Are you aware of there being a provision for time-outs in the RFC for ARP? MR. NEUKOM: Objection. Vague and compound, asked and answered. THE WITNESS: I'm not I don't remember such language right now. 17:58:38 BY MR. FERRALL:	6 7 8 9 243 10 11 12 13 14 15 16 17 18 19 20 21	Where did the term "ARP cache" come from? A The cache is a logically a list of items. An ARP cache would be a list of ARP requests that have been satisfied, including their MAC addresses and how long since the last time we'd seen a the router had seen an ARP request go by for that particular source address. That sort of computer science concept of a cache is found all over. Q One of the commands that is indicated that you authored is the command "boot system." Had you ever heard someone use the words "boot system" together before you joined Cisco? MR. NEUKOM: Objection. Vague. THE WITNESS: I had heard phrases like 18:03:45 "boot the system up," "reboot the system," "reload
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	compound. THE WITNESS: There is the ARP entries can become stale. If you unplug the computer or you move the computer somewhere else or you replace the network interface, entries will become stale. Implementing a time-out is a way of making sure the cache isn't stale. BY MR. FERRALL: Q Are you aware of there being a provision for time-outs in the RFC for ARP? MR. NEUKOM: Objection. Vague and compound, asked and answered. THE WITNESS: I'm not I don't remember such language right now. 17:58:38 BY MR. FERRALL: Q Did you create the term "distance BGP"?	6 7 8 9 243 10 11 12 13 14 15 16 17 18 19 20 21 22	Where did the term "ARP cache" come from? A The cache is a logically a list of items. An ARP cache would be a list of ARP requests that have been satisfied, including their MAC addresses and how long since the last time we'd seen a the router had seen an ARP request go by for that particular source address. That sort of computer science concept of a cache is found all over. Q One of the commands that is indicated that you authored is the command "boot system." Had you ever heard someone use the words "boot system" together before you joined Cisco? MR. NEUKOM: Objection. Vague. THE WITNESS: I had heard phrases like 18:03:45 "boot the system up," "reboot the system," "reload the system," "start the system," "restart the
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	compound. THE WITNESS: There is the ARP entries can become stale. If you unplug the computer or you move the computer somewhere else or you replace the network interface, entries will become stale. Implementing a time-out is a way of making sure the cache isn't stale. BY MR. FERRALL: Q Are you aware of there being a provision for time-outs in the RFC for ARP? MR. NEUKOM: Objection. Vague and compound, asked and answered. THE WITNESS: I'm not I don't remember such language right now. 17:58:38 BY MR. FERRALL: Q Did you create the term "distance BGP"? A Yes.	6 7 8 9 743 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Where did the term "ARP cache" come from? A The cache is a logically a list of items. An ARP cache would be a list of ARP requests that have been satisfied, including their MAC addresses and how long since the last time we'd seen a the router had seen an ARP request go by for that particular source address. That sort of computer science concept of a cache is found all over. Q One of the commands that is indicated that you authored is the command "boot system." Had you ever heard someone use the words "boot system" together before you joined Cisco? MR. NEUKOM: Objection. Vague. THE WITNESS: I had heard phrases like 18:03:45 "boot the system up," "reboot the system," "reload the system," "start the system," "restart the system," "restart the system."
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	compound. THE WITNESS: There is the ARP entries can become stale. If you unplug the computer or you move the computer somewhere else or you replace the network interface, entries will become stale. Implementing a time-out is a way of making sure the cache isn't stale. BY MR. FERRALL: Q Are you aware of there being a provision for time-outs in the RFC for ARP? MR. NEUKOM: Objection. Vague and compound, asked and answered. THE WITNESS: I'm not I don't remember such language right now. 17:58:38 BY MR. FERRALL: Q Did you create the term "distance BGP"?	6 7 8 9 243 10 11 12 13 14 15 16 17 18 19 20 21 22	Where did the term "ARP cache" come from? A The cache is a logically a list of items. An ARP cache would be a list of ARP requests that have been satisfied, including their MAC addresses and how long since the last time we'd seen a the router had seen an ARP request go by for that particular source address. That sort of computer science concept of a cache is found all over. Q One of the commands that is indicated that you authored is the command "boot system." Had you ever heard someone use the words "boot system" together before you joined Cisco? MR. NEUKOM: Objection. Vague. THE WITNESS: I had heard phrases like 18:03:45 "boot the system up," "reboot the system," "reload the system," "start the system," "restart the

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 58 of 122

		1	
1	Q How did you choose the term the words 18:13:	39 ₁	
2	"timers basic" for this function?	2	
3	A I don't remember where "basic" came from.	3	
4	But using the keyword "timers" was my was my	4	
5	introduction, was my creation. 18:14:00	5	
6	MR. NEUKOM: Counsel, I believe we're now	!	
7		6	
8	beyond seven hours. MR. FERRALL: Okay. Well, I given	7	I WINK I OHOUTED to be to the fortunal to
1		8	I, KIRK LOUGHEED, do hereby declare unde
9	Mr. Lougheed's tenure at Cisco, I thank him for his	9	penalty of perjury that I have read the foregoing
10	time, but I will say I think we deserve some more 18:14:22 time with him.	10	transcript; that I have made any corrections as
11		11	appear noted, in ink, initialed by me, or attached
12	But I understand seven hours is up and	12	hereto; that my testimony as contained herein, as
13	you're going to say enough is enough for today I	13	corrected, is true and correct.
14	take it; is that right?	14	EXECUTED this day of,
15	MR. NEUKOM: Certainly for today for the 18:14:31	15	2015, at,
16	sake of the witness. And we will respectfully	16	(City) (State)
17	disagree with the idea that counsel needs more than	17	
18	seven hours	18	
19	MR. FERRALL: Okay.	19	
20	MR. NEUKOM: needs more than today. 18:14:41		KIRK LOUGHEED
21	But we can discuss that for another day.	21	
22	In the meantime, I should note for the	22	
23	record the witness reserves the right to review the	23	
24	transcript and make corrections.	24	
25	Brian, I'm not sure I did that for 18:14:51	25	
	Page 186		Page 188
1	Mr. Tjong. If you're okay with it, I'd like to just 18:14:53	1	I, the undersigned, a Certified Shorthand
2	do a stipulation across the case that both sides	2	Reporter of the State of California, do hereby
3	have the 30-day review and errata right for all	3	•
4	transcripts regardless whether counsel puts it on	4	certify: That the foregoing proceedings were taken
5	the record at the depo as a two-way street. 18:15:04	5	before me at the time and place herein set forth;
6	MR. FERRALL: That's fine. I thought it	6	that any witnesses in the foregoing proceedings,
7	existed as a matter of procedure anyway. So that's	7	
8	fine.	8	prior to testifying, were administered an oath; that
9		9	a record of the proceedings was made by me using
10	MR. NEUKOM: 1 hope you're right, but glad to have the stipulation, even if it's unnecessary. 18:15:17		machine shorthand which was thereafter transcribed
10	MR. FERRALL: Okay.		under my direction; that the foregoing transcript is
12	MR. NEUKOM: Thanks very much.	11	a true record of the testimony given.
	· · · · · · · · · · · · · · · · · · ·	12	Further, that if the foregoing pertains to
13	THE VIDEO OPERATOR: This concludes	13	the original transcript of a deposition in a Federal
14	today's videotaped deposition of Mr. Kirk Lougheed.	14	Case, before completion of the proceedings, review
15	We're off the record at 6:15 p.m. Thank you. 18:15:2		of the transcript [X] was [] was not requested.
16	(TIME NOTED: 6:15 p.m.)	16	I further certify I am neither financially
17	000	17	interested in the action nor a relative or employee
18		18	of any attorney or any party to this action.
19		19	IN WITNESS WHEREOF, I have this date
20		20	subscribed my name.
21	T T T T T T T T T T T T T T T T T T T	21	5
22		22	Dated: 11/25/2015
23		23	
24		24	<%signature%>
25	7	25	CARLA SOARES
	Page 187		Page 189

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 59 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 59 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

```
UNITED STATES DISTRICT COURT
 1
 2
                 NORTHERN DISTRICT OF CALIFORNIA
 3
                        SAN JOSE DIVISION
 4
      CISCO SYSTEMS, INC. Case No.: 5:14-cv-05344-BLF(PSG)
 5
                    Plaintiff,
 6
           v.
 7
      ARISTA NETWORKS, INC.
 8
                   Defendants.
 9
10
11
12
13
         * HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY *
            VIDEOTAPED DEPOSITION OF KIRK LOUGHEED
14
15
                     Palo Alto, California
                     Monday, April 4, 2016
16
17
                             Volume 2
18
19
20
21
      Reported by:
22
      LESLIE JOHNSON
23
      RPR, CSR No. 11451
24
      Job No.: 2285024
25
      PAGES 190 - 399
                                                          Page 190
```

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 60 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

IIIOHEI CONFIDENTIAL	ATTORNETS ETES ONLT
I UNITED STATES DISTRICT COURT	1 INDEX
2 FOR THE NORTHERN DISTRICT OF CALIFORNIA	2 SWITNINGS EVANDATION
3 SAN JOSE DIVISION	3 WITNESS EXAMINATION 4 KIRK LOUGHEED
4	Volume 2
CISCO SYSTEMS, INC Case No : 5:14-cv-05344-BLF(PSG)	5
5	6 BY MR. WONG 197
Plaintiff,	7
6	8 EXHIBITS 9 KIRK LOUGHEED
v	9 KIRK LOUGHEED 10 NUMBER DESCRIPTION PAGE
7	11 Exhibit 452 Copy of name badge; 1 page 198
ARISTA NETWORKS, INC	12 Exhibit 453 Black and white copy of photograph; 198
8	1 page
Defendants 9	13
10	Exhibit 454 Patent Agreement; Bates stamped 208 14 KL-00000872 to 891
11	15 Exhibit 455 A Multiple Protocol Kernel for 228
12	Local Area Network Software
13	16 Development Reference Manual; Bates
14 * HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY *	stamped KL-00000001 to 93
15	Fybibit 456 Dogument entitled "Changnet": Bates 238
16	Exhibit 456 Document entitled "Chaosnet"; Bates 238 18 stamped KL-00000186 to 250
17 VIDEOTAPED DEPOSITION OF KIRK LOUGHEED, Volume 2,	19 Exhibit 457 Document entitled "Debugging 241
18 taken on behalf of Defendant, at 601 California Avenue,	Information"; Bates stamped
19 Palo Alto, California, beginning at 9:25 a m and ending	20 KL-00000564-654
20 at 4:37 p m, on Monday, April 4, 2016, before	21 Exhibit 458 DECnet Digital Network Architecture 244
21 LESLIE JOHNSON, Certified Shorthand Reporter No 11451	(Phase V); Bates stamped 22 KL-0000251 to 380
22	23 Exhibit 459 E-mail from Stanford Low Overhead 252
23	Timesharing; Bates stamped
24	24 KL-00001699 to 763
25 P. 101	25
Page 191	Page 193
1 APPEARANCES:	I EXHIBITS (Cont) 2 KIRK LOUGHEED
2	2 KIRK LOUGHEED 3 NUMBER DESCRIPTION PAGE
3 FOR PLAINTIFF CISCO SYSTEMS, INC.:	4 Exhibit 460 E-mail dated 10-Jan-83 from Barb 260
	at ISL to Computer Committee; Bates 5 stamped KL-0000868 to 871
4 QUINN EMANUEL URQUHART & SULLIVAN LLP	6 Exhibit 461 Stanford Ethertip/Gateway User and 263
5 BY: JOHN (JAY) NEUKOM, ESQ.	Configuration Guide; Bates stamped 7 CSI-CLI-01315367 to 97
6 50 California Street, 22nd Floor	8 Exhibit 462 Letter dated August 21, 1986 from 281
7 San Francisco, California 94111	Robert L Street to Len Bosack; 9 Bates stamped CSI-CLI-01839502
8 (415)875-6600	to 504
9 johnneukom@quinnemanuel.com	10 Exhibit 463 E-mail dated 4/3/2006 from Kirk 298
10 FOR DEFENDANT ARISTA NETWORKS, INC.:	11 Lougheed to Vivian Neou; Bates
11 KEKER & VAN NEST LLP	stamped CSI-CLI-01124245
	12 Exhibit 464 Cisco's Amended Exhibit F; 44 pages 302
12 BY: RYAN WONG, ESQ.	13
13 633 Battery Street	Exhibit 465 Software Unit External Functional 310 14 Specification; Bates stamped
14 San Francisco, California 94111	CSI-CLI-00608751 to 752
15 (415)391-5400	15 Exhibit 466 ipsupport c miscellaneous IP 328
16 rwong@kvn.com	16 support code; 20 pages
17 ALSO PRESENT:	17 Exhibit 467 Document entitled "Part 3; Media 332 Access Control (MAC) Bridges";
18 SEAN GRANT, Videographer	18 Bates stamped ARISTANDCA00032440
19	to 812
	Exhibit 468 Contents of "lip" directory; 1 page 348
20	20
21	Exhibit 469 Command1 c ASM/AGS commands; 355 21 Bates stamped KL-SC-00000001 to 9
22	22 Exhibit 470 Config c parse and act upon 358
23	configuration commands; Bates 23 stamped KL-SC-0000010 to 20
24	24 Exhibit 471 Exec c ASM/AGS command level; 365
25	Bates stamped KL-SC-00000021 to 32
Page 192	Page 194
5	9

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 61 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

1	1 EXHIBITS (Cont.)		1 THE VIDEOGRAPHER: Thank you. Will the
	2 KIRK LOUGHEED	1	2 certified court reporter please swear in the
1	NUMBER DESCRIPTION PAGE	1 3	3 witness.
- 1	4 Exhibit 472 "cisco.c" source code; 1 page 371	2	4
1	5 Exhibit 473 "stanford.e" source code; 1 page 371	4	KIRK LOUGHEED,
(6 Exhibit 474 Source code; Bates stamped 375	- 1	6 having been administered an oath, was examined and
١,	KL-SC-00000033 to 41		
7	Exhibit 475 Source code; Bates stamped 375	8	,
8		g	
1		1 -	BY MR. WONG:
	and Configuration Guide; Bates	11	
10		12	
11	* * *		
12	!	13	
13		1	is a continuation of your personal deposition that
14		1	was taken back on November 20th, 2015?
15		16	,
16		17	1
17		I.	testifying under oath as if you were testifying at
18 19		1	trial?
20		20	
21		21	Q. And is there any reason why you cannot
22		22	give full and truthful testimony today?
23		23	A. There is no reason.
24		24	Q. And are you generally still familiar with
25		25	the ground rules for a deposition?
	Page 195		Page 197
1	Palo Alto, California, Monday, April 4, 2016	1	A. Yes.
2		2	Q. Okay. Well, I'll just repeat some of the
3			
		3	
4	THE VIDEOGRAPHER: Good morning. We're on		more important rules. If you need to take a break
4	THE VIDEOGRAPHER: Good morning. We're on the record. The time is 9:25 a m., and the date is	4	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is
4 5	the record. The time is 9:25 a m., and the date is	4 5	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer
4 5 6	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the	4 5 6	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay?
4 5 6 7	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name	4 5 6 7	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.)
4 5 6 7 8	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie	4 5 6 7 8	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the
4 5 6 7 8 9	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie Johnson. We're here from Veritext Legal Solutions	4 5 6 7 8 9	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the first exhibit for today.
4 5 6 7 8 9	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie Johnson. We're here from Veritext Legal Solutions at the request of counsel for Defendant. This	4 5 6 7 8 9	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the first exhibit for today. (Exhibit 452 marked for identification.)
4 5 6 7 8 9 10	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie Johnson. We're here from Veritext Legal Solutions at the request of counsel for Defendant. This deposition is being held at Wilson Sonsini in Palo	4 5 6 7 8 9 10	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the first exhibit for today. (Exhibit 452 marked for identification.) MR. WONG: And we will mark this one as
4 5 6 7 8 9 10 11 12	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie Johnson. We're here from Veritext Legal Solutions at the request of counsel for Defendant. This deposition is being held at Wilson Sonsini in Palo Alto, California. The caption of this case is	4 5 6 7 8 9 10 11 12	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the first exhibit for today. (Exhibit 452 marked for identification.) MR. WONG: And we will mark this one as the next exhibit.
4 5 6 7 8 9 10 11 12 13	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie Johnson. We're here from Veritext Legal Solutions at the request of counsel for Defendant. This deposition is being held at Wilson Sonsini in Palo Alto, California. The caption of this case is "Cisco Systems Inc. versus Arista Networks Inc.,"	4 5 6 7 8 9 10 11 12 13	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the first exhibit for today. (Exhibit 452 marked for identification.) MR. WONG: And we will mark this one as the next exhibit. (Exhibit 453 marked for identification.)
4 5 6 7 8 9 10 11 12 13 14	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie Johnson. We're here from Veritext Legal Solutions at the request of counsel for Defendant. This deposition is being held at Wilson Sonsini in Palo Alto, California. The caption of this case is "Cisco Systems Inc. versus Arista Networks Inc.," Case No. 5:14-cv-05344-BLF.	4 5 6 7 8 9 10 11 12 13 14	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the first exhibit for today. (Exhibit 452 marked for identification.) MR. WONG: And we will mark this one as the next exhibit. (Exhibit 453 marked for identification.) MR. NEUKOM: Ryan, I have two separate
4 5 6 7 8 9 10 11 12 13 14 15	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie Johnson. We're here from Veritext Legal Solutions at the request of counsel for Defendant. This deposition is being held at Wilson Sonsini in Palo Alto, California. The caption of this case is "Cisco Systems Inc. versus Arista Networks Inc.," Case No. 5:14-cv-05344-BLF. Please note that audio and video recording	4 5 6 7 8 9 10 11 12 13 14 15	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the first exhibit for today. (Exhibit 452 marked for identification.) MR. WONG: And we will mark this one as the next exhibit. (Exhibit 453 marked for identification.) MR. NEUKOM: Ryan, I have two separate pieces of paper. Are you treating these as two
4 5 6 7 8 9 10 11 12 13 14 15 16	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie Johnson. We're here from Veritext Legal Solutions at the request of counsel for Defendant. This deposition is being held at Wilson Sonsini in Palo Alto, California. The caption of this case is "Cisco Systems Inc. versus Arista Networks Inc.," Case No. 5:14-cv-05344-BLF. Please note that audio and video recording will take place unless all parties have agreed to go	4 5 6 7 8 9 10 11 12 13 14 15	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the first exhibit for today. (Exhibit 452 marked for identification.) MR. WONG: And we will mark this one as the next exhibit. (Exhibit 453 marked for identification.) MR. NEUKOM: Ryan, I have two separate pieces of paper. Are you treating these as two separate exhibits?
4 5 6 7 8 9 10 11 12 13 14 15 16 17	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie Johnson. We're here from Veritext Legal Solutions at the request of counsel for Defendant. This deposition is being held at Wilson Sonsini in Palo Alto, California. The caption of this case is "Cisco Systems Inc. versus Arista Networks Inc.," Case No. 5:14-cv-05344-BLF. Please note that audio and video recording will take place unless all parties have agreed to go off the record. Microphones are sensitive and may	4 5 6 7 8 9 10 11 12 13 14 15 16	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the first exhibit for today. (Exhibit 452 marked for identification.) MR. WONG: And we will mark this one as the next exhibit. (Exhibit 453 marked for identification.) MR. NEUKOM: Ryan, I have two separate pieces of paper. Are you treating these as two separate exhibits? MR. WONG: Yes. I'm going to give them
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie Johnson. We're here from Veritext Legal Solutions at the request of counsel for Defendant. This deposition is being held at Wilson Sonsini in Palo Alto, California. The caption of this case is "Cisco Systems Inc. versus Arista Networks Inc.," Case No. 5:14-cv-05344-BLF. Please note that audio and video recording will take place unless all parties have agreed to go off the record. Microphones are sensitive and may pick up whispers, private conversations or cellular	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the first exhibit for today. (Exhibit 452 marked for identification.) MR. WONG: And we will mark this one as the next exhibit. (Exhibit 453 marked for identification.) MR. NEUKOM: Ryan, I have two separate pieces of paper. Are you treating these as two separate exhibits? MR. WONG: Yes. I'm going to give them two exhibit numbers and read them into the record in
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie Johnson. We're here from Veritext Legal Solutions at the request of counsel for Defendant. This deposition is being held at Wilson Sonsini in Palo Alto, California. The caption of this case is "Cisco Systems Inc. versus Arista Networks Inc.," Case No. 5:14-cv-05344-BLF. Please note that audio and video recording will take place unless all parties have agreed to go off the record. Microphones are sensitive and may	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the first exhibit for today. (Exhibit 452 marked for identification.) MR. WONG: And we will mark this one as the next exhibit. (Exhibit 453 marked for identification.) MR. NEUKOM: Ryan, I have two separate pieces of paper. Are you treating these as two separate exhibits? MR. WONG: Yes. I'm going to give them two exhibit numbers and read them into the record in just a second.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie Johnson. We're here from Veritext Legal Solutions at the request of counsel for Defendant. This deposition is being held at Wilson Sonsini in Palo Alto, California. The caption of this case is "Cisco Systems Inc. versus Arista Networks Inc.," Case No. 5:14-cv-05344-BLF. Please note that audio and video recording will take place unless all parties have agreed to go off the record. Microphones are sensitive and may pick up whispers, private conversations or cellular	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the first exhibit for today. (Exhibit 452 marked for identification.) MR. WONG: And we will mark this one as the next exhibit. (Exhibit 453 marked for identification.) MR. NEUKOM: Ryan, I have two separate pieces of paper. Are you treating these as two separate exhibits? MR. WONG: Yes. I'm going to give them two exhibit numbers and read them into the record in just a second. The court reporter has marked as
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie Johnson. We're here from Veritext Legal Solutions at the request of counsel for Defendant. This deposition is being held at Wilson Sonsini in Palo Alto, California. The caption of this case is "Cisco Systems Inc. versus Arista Networks Inc.," Case No. 5:14-cv-05344-BLF. Please note that audio and video recording will take place unless all parties have agreed to go off the record. Microphones are sensitive and may pick up whispers, private conversations or cellular interference.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the first exhibit for today. (Exhibit 452 marked for identification.) MR. WONG: And we will mark this one as the next exhibit. (Exhibit 453 marked for identification.) MR. NEUKOM: Ryan, I have two separate pieces of paper. Are you treating these as two separate exhibits? MR. WONG: Yes. I'm going to give them two exhibit numbers and read them into the record in just a second.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie Johnson. We're here from Veritext Legal Solutions at the request of counsel for Defendant. This deposition is being held at Wilson Sonsini in Palo Alto, California. The caption of this case is "Cisco Systems Inc. versus Arista Networks Inc.," Case No. 5:14-cv-05344-BLF. Please note that audio and video recording will take place unless all parties have agreed to go off the record. Microphones are sensitive and may pick up whispers, private conversations or cellular interference. At this time, will counsel please identify	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the first exhibit for today. (Exhibit 452 marked for identification.) MR. WONG: And we will mark this one as the next exhibit. (Exhibit 453 marked for identification.) MR. NEUKOM: Ryan, I have two separate pieces of paper. Are you treating these as two separate exhibits? MR. WONG: Yes. I'm going to give them two exhibit numbers and read them into the record in just a second. The court reporter has marked as
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie Johnson. We're here from Veritext Legal Solutions at the request of counsel for Defendant. This deposition is being held at Wilson Sonsini in Palo Alto, California. The caption of this case is "Cisco Systems Inc. versus Arista Networks Inc.," Case No. 5:14-cv-05344-BLF. Please note that audio and video recording will take place unless all parties have agreed to go off the record. Microphones are sensitive and may pick up whispers, private conversations or cellular interference. At this time, will counsel please identify themselves and state whom they represent.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the first exhibit for today. (Exhibit 452 marked for identification.) MR. WONG: And we will mark this one as the next exhibit. (Exhibit 453 marked for identification.) MR. NEUKOM: Ryan, I have two separate pieces of paper. Are you treating these as two separate exhibits? MR. WONG: Yes. I'm going to give them two exhibit numbers and read them into the record in just a second. The court reporter has marked as Exhibit 452 a photocopy photo bearing Bates Nos.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie Johnson. We're here from Veritext Legal Solutions at the request of counsel for Defendant. This deposition is being held at Wilson Sonsini in Palo Alto, California. The caption of this case is "Cisco Systems Inc. versus Arista Networks Inc.," Case No. 5:14-cv-05344-BLF. Please note that audio and video recording will take place unless all parties have agreed to go off the record. Microphones are sensitive and may pick up whispers, private conversations or cellular interference. At this time, will counsel please identify themselves and state whom they represent. MR. WONG: Ryan Wong from Keker & Van Nest	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the first exhibit for today. (Exhibit 452 marked for identification.) MR. WONG: And we will mark this one as the next exhibit. (Exhibit 453 marked for identification.) MR. NEUKOM: Ryan, I have two separate pieces of paper. Are you treating these as two separate exhibits? MR. WONG: Yes. I'm going to give them two exhibit numbers and read them into the record in just a second. The court reporter has marked as Exhibit 452 a photocopy photo bearing Bates Nos. KL-00002202. The court reporter has also marked as
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie Johnson. We're here from Veritext Legal Solutions at the request of counsel for Defendant. This deposition is being held at Wilson Sonsini in Palo Alto, California. The caption of this case is "Cisco Systems Inc. versus Arista Networks Inc.," Case No. 5:14-cv-05344-BLF. Please note that audio and video recording will take place unless all parties have agreed to go off the record. Microphones are sensitive and may pick up whispers, private conversations or cellular interference. At this time, will counsel please identify themselves and state whom they represent. MR. WONG: Ryan Wong from Keker & Van Nest for Defendant Arista Networks.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the first exhibit for today. (Exhibit 452 marked for identification.) MR. WONG: And we will mark this one as the next exhibit. (Exhibit 453 marked for identification.) MR. NEUKOM: Ryan, I have two separate pieces of paper. Are you treating these as two separate exhibits? MR. WONG: Yes. I'm going to give them two exhibit numbers and read them into the record in just a second. The court reporter has marked as Exhibit 452 a photocopy photo bearing Bates Nos. KL-00002202. The court reporter has also marked as Exhibit 453, a black and white photo with Bates Nos.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	the record. The time is 9:25 a m., and the date is April 4th, 2016. This begins Volume 2 of the videotaped deposition of Mr. Kirk Lougheed. My name is Sean Grant, here with our court reporter, Leslie Johnson. We're here from Veritext Legal Solutions at the request of counsel for Defendant. This deposition is being held at Wilson Sonsini in Palo Alto, California. The caption of this case is "Cisco Systems Inc. versus Arista Networks Inc.," Case No. 5:14-cv-05344-BLF. Please note that audio and video recording will take place unless all parties have agreed to go off the record. Microphones are sensitive and may pick up whispers, private conversations or cellular interference. At this time, will counsel please identify themselves and state whom they represent. MR. WONG: Ryan Wong from Keker & Van Nest for Defendant Arista Networks. MR. NEUKOM: John Neukom for the plaintiff	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	more important rules. If you need to take a break at any time, just let me know. And all I'd ask is that if there is a question pending, that you answer it before we go on the break. Okay? A. (Witness nods head.) MR. WONG: Why don't we mark this as the first exhibit for today. (Exhibit 452 marked for identification.) MR. WONG: And we will mark this one as the next exhibit. (Exhibit 453 marked for identification.) MR. NEUKOM: Ryan, I have two separate pieces of paper. Are you treating these as two separate exhibits? MR. WONG: Yes. I'm going to give them two exhibit numbers and read them into the record in just a second. The court reporter has marked as Exhibit 452 a photocopy photo bearing Bates Nos. KL-00002202. The court reporter has also marked as Exhibit 453, a black and white photo with Bates Nos. KL-00002201.

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 62 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

- 1 A. A type of computer manufactured by the
- 2 Digital Equipment Corporation.
- Q. And Digital Equipment Corporation is also
- 4 known as DEC, right?
- A. Correct.
- 6 Q. And did you work with these DEC VAX
- 7 super-minicomputers while an employee at Stanford?
- 8 A. One of the -- actually, at least two of
- 9 the systems programmers were the ones that were
- 10 primarily responsible for making sure that those
- 11 systems ran properly.
- 12 Q. Was Mr. Satz one of those systems
- 13 programmers that --
- 14 A. Yes.
- 15 Q. -- worked with the VAX system?
- 16 A. Yes.
- 17 Q. Is the answer the same for the VAX-11/750
- 18 super-minicomputers?
- 19 A. Yes.
- 20 Q. Did those VAX machines have a command-line
- 21 interface?
- 22 MR. NEUKOM: Objection. Vague.
- 23 BY MR. WONG:
- Q. Did the VAX-11/780 systems have a
- 25 command-line interface?

- 1 Q. And the first full sentence of that bullet
- 2 point says, "Supervised a computer science
- 3 department electronics design engineer in the
- 4 hardware debugging of a DEC-20 to ethernet
- 5 interface."
- 6 The next sentence says, "I also wrote the
- 7 interface's control microcode, the hardware
- 8 diagnostics, and the operating system support for
- 9 the device."
- 10 Do you see that?
- 11 A. I do.
- 12 Q. Is that referring to the EtherTIP
- 13 software?
- 14 A. No.
- 15 Q. What is that referring to?
- 16 A. That's referring to the Massbus-Ethernet
- 17 Interface Subsystem.
- 18 Q. And that's also reflected with the acronym
- 19 MEIS, correct?
- 20 A. Yes.
- 21 Q. Did Cisco use any of the software for the
- **22 MEIS?**
- 23 A. No.
- Q. Can you go to the page ending with Bates
- 25 No. 888 in Exhibit 454.

Page 223

Page 225

- 1 MR. NEUKOM: Objection. Vague.
- THE WITNESS: Yes.
- 3 BY MR. WONG:
- 4 Q. Were you familiar with how the VAX
- 5 command-line interface operated?
- 6 A. VAX is the name of a piece of hardware
- 7 that would run an operating system.
- 8 Q. Thank you.
- 9 What is the operating system that the VAX
- 10 hardware ran?
- 11 A. At Stanford there were two possibilities,
- 12 something called VAX VMS, and there was also
- 13 Berkeley UNIX.
- 14 Q. Is Berkeley UNIX the same as BSD?
- 15 A. Yes.
- 16 Q. Were you familiar with the VAX VMS
- 17 command-line interface?
- 18 A. No.
- 19 Q. Were you familiar with the Berkeley UNIX
- 20 command-line interface?
- 21 A. Yes.
- Q. The last bullet point on the page ending
- 23 in 886 of Exhibit 454, do you see that? It starts
- 24 with "Supervised a computer science department."
- 25 A. Yes, I see that paragraph.

Page 224

- 1 A. Uh-huh. Yes. I'm on that page.
- Q. The first bullet point, or I guess the
- 3 only bullet point on this page starts with "Acted as
- 4 Stanford contact."
- 5 Do you see that?
- 6 A. Yes, I see that paragraph.
- 7 Q. Is it true that you acted as Stanford
- 8 contact with DEC for field testing of two new
- 9 releases of the DEC-20 operating system?
- 10 A. Let me finish the paragraph so I can
- 11 establish context.
- 12 Q. Sure. Please take your time.
- 13 A. Okay. I've read the paragraph. Your
- 14 question is?
- 15 Q. Is it true you that you acted as the
- 16 Stanford contact with Digital Equipment Corporation
- 17 for field testing two new releases of the DEC-20
- 18 operating system?
- 19 A. Yes.
- Q. Is the DEC 20 operating system the same
- 21 thing as the TOPS-20 operating system?
- 22 A. Yes.
- 23 Q. Further down on this same page ending with
- 24 control numbers 888 on Exhibit 454, there's a
- 25 section called "Special Skills Knowledge or Training Page 226

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 63 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

	Required Including Tools or Equipment Used."	- 1	1 MR. NEUKOM: Objection. The question is
2	•	1	2 phrased in the hypothetical.
3			MR. WONG: Let me rephrase the question so
4	Ç	1	4 it's not hypothetical.
5	,	1	5 BY MR. WONG:
6	used in local area networks in (ethernet) and	1	Q. Did you obtain the document marked as
7	` ,	-	7 Exhibit 455 before you left Stanford in July of
8	•	1	8 1986?
9		9	
10	Ç	10	•
11		1	document marked as Exhibit 455 directly from
12		ŀ	2 Mr. Yaeger?
- 1	of May 6th, 1985 that were used in local area	13	· · · · · · · · · · · · · · · · · · ·
14	networks?	14	
15	A. There ethernet, even in 1985 had many,	15	•
16	many protocols. You could run PUP or Park Universal	16	Was the document marked as Exhibit 455
17	Packet. You could run PCPIP. You could run XNS.	17	variable for you to get, besides going directly
18	You could run by that time, pretty much any	18	through Mr. Yaeger?
19	network protocol would run on an ethernet.	19	MR. NEUKOM: Objection. Vague.
20	Q. Was address resolution protocol a protocol	20	THE WITNESS: I don't have a memory of how
21	that was used in local area networks?		I actually obtained it. I these such
22	A. On ethernets, yes.	22	documents were certainly easily obtainable at
23	Q. You can put that document aside.	23	Stanford University.
24	MR. WONG: Let's mark this one as	24	BY MR. WONG:
25	Exhibit 455, please.	25	Q. When you say such documents like
	Page 227		Page 229
1	(Exhibit 455 marked for identification.)	1	Exhibit 455 were easily obtainable at Stanford
	BY MR. WONG:	1	University, how were these documents easily
3	Q. The court reporter has marked as	Ι.	obtainable?
4	2	4	1
İ	00000001 to 93.	1	research community where research reports, if you
6	Mr. Lougheed, do you recognize the	ŀ	wanted them, you could you could ask around for
7		1	them.
8	A. I recognize what it is. I don't believe I	8	Q. Now, you said you weren't sure if you had
9	have read it before.	Į	read the document marked as Exhibit 455, correct?
10	Q. Okay. You say you recognize what it is.	10	i
	What is the document marked as Exhibit 455?	11	MR. NEUKOM: Objection. Misstates prior
12	A. It appears to be a reference manual for		testimony.
	Bill Yaeger's software that he developed under the	13	THE WITNESS: I have no memory of reading
1	SUMEX project.		this before. I may have. I may not have. I have
15	Q. And this was produced from your personal		no memory.
1	files, correct, Exhibit 455?	16	BY MR. WONG:
17	A. Yes.	17	Q. Were you familiar with the functionality
18	Q. Why did you have the document marked as	18	of the SUMEX software that Mr. Yaeger wrote while at
	Exhibit 455 in your personal files?	19	Stanford?
20	A. It seemed to me to be of whenever I	20	A. Yes.
1	obtained it, it seemed to me to be of at least	21	Q. Were you familiar with how the command
1	historical interest.	22	parser worked in the SUMEX software that Mr. Yaeger
23	Q. Would you have obtained the document	23	wrote?
	marked as Exhibit 455 before you left Stanford in	24	A. At one point I certainly was.
25	July of 1986?	25	Q. Were you familiar with how the command
L	Page 228		Page 230

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 64 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

- Q. And was Exhibit 456 a document that was in
 your personal files?
 A. Yes, it was.
 Q. Okay. And why did you have this CHAOS net
- 4 Q. Okay. And why did you have this CHAOS ne 5 document marked as Exhibit 456 in your personal
- 6 files?A. Because in 1987, at the request of some
- 8 customers, we added CHAOS net to the Cisco router
- 9 software. A consultant named Eric Weaver actually
- 10 did the -- I believe it was Eric Weaver did the
- 11 actual implementation in the Cisco software. He was
- 12 a contractor for us.
- Q. Okay. So your possession of the documentmarked as Exhibit 456 was in connection with work
- 15 that Cisco did with respect to CHAOS net?
- 16 A. Correct. I suspect this was the document 17 I handed him to say I want this in the router.
- Q. Did you ever read the document marked as
- 19 Exhibit 456 before you handed it to Mr. Weaver?
- 20 A. I may have.
- Q. Can you turn to page 17 of Exhibit 456.
- 22 The control number at the bottom ends in 206. Let
- 23 me know when you're there, please.
- A. Okay. I'm on page -- page 17 of the CHAOS 25 net document.

- 1 Q. Did you come up with the term "flow 2 control"?
- 3 A. No. You're doing a bit of random word 4 matching.
- 5 Q. Yes. Random questioning is definitely my 6 style.
- 7 You can set that document aside.
- 8 MR. WONG: Let's mark this one as the next 9 exhibit, please.
- 10 (Exhibit 457 marked for identification.)
 11 BY MR. WONG:
- 12 Q. The court reporter has marked as
- 13 Exhibit 457 a document bearing control numbers
- 14 KL-00000564 to 654.
- 15 And Mr. Lougheed, take your time to look 16 at Exhibit 457. But my question to you is, do you 17 recognize the document marked as Exhibit 457?
- 18 A. There is no title to this document, other
- 19 than Chapter 1. It appears to be -- have to do with
- 20 DEC-20 hardware. So I don't -- I do not recognize
- 21 where this document came from.
- Q. Okay. I'll represent to you that thisdocument was produced to us without a cover page.
- 24 So this is -- this is the document that was produced 25 to us.

Page 239 Page 241

- 1 Q. And the first -- strike that. At the top
- 2 of this page ending in control numbers 206 of
- 3 Exhibit 456, it says "3.8 Flow and Error Control."
- 4 Do you see that?
- 5 A. Yes.
- 6 Q. Do you understand what flow control is,
- 7 Mr. Lougheed?
- 8 A. In a general sense.
- 9 Q. Can you please explain to me what flow
- 10 control means in a general sense.
- 11 A. How you put packets onto the network and
- 12 what speed, rate that you -- and under what
- 13 conditions you put the packets onto the network.
- 14 That's my general understanding. I'm not sure --
- 15 every protocol has its own nuances, so -- and I have
- 16 not read the rest of this page, so . . .
- 17 Q. Understood.
- When you say every protocol has its own
- 19 nuances, do you mean that every protocol has its own
- 20 nuances for flow control?
- 21 A. Pretty much.
- 22 Q. When was -- strike that.
- 23 Do you know when the term "flow control"
- 24 was first used in the networking industry?
- 25 A. No.

- Do you have any doubt that this document
- 2 was in your personal files that you handed over to
- 3 Cisco's counsel?

1

- 4 A. I don't doubt that.
- 5 Q. Do you know when you came into possession
- 6 of the TOPS-20 document marked as Exhibit 457?
- 7 A. Probably while I was working at Stanford,
- 8 if this indeed came from the contents of the boxes
- 9 in my garage.
- 10 Q. Mr. Lougheed, did you give the documents
- 11 that were in your garage to your counsel after the
- 12 first deposition took place?
- 13 A. There were -- yes.
- 14 Q. Was there anything else besides documents
- 15 that were stored in your garage that you provided to
- 16 your counsel after the first deposition of you?
- 17 Anything besides paper documents that you found in
- 18 your garage? Did you provide any other documents to
- 19 your counsel after your first deposition?
- 20 A. Just paper documents.
- 21 Q. Did you have -- strike that.
- While you were working at Stanford and
- 23 before you left to join Cisco in July of 1986, did
- 24 you have TOPS-20 user manuals in your possession?
- 25 MR. NEUKOM: Objection. Vague.

Page 242

Page 240

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 65 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

1 A. Yes. 1 2 Q. Do you know when a spanning tree is? 3 A. Yes, I do. 4 Q. What is a spanning tree? A. Yes. 5 A. A spanning tree is a --5 6 MR. NEUKOM: Objection. Calls for 7 opinion. THE WITNESS: It's a graph imposed on the 8 A. Okay. 9 network to ensure that packets that are being 10 bridged do not get into loops as they are being 11 transmitted by bridges. 12 BY MR. WONG: 13 Q. And is that the function that is served by 13 A. Yeah. 14 14 a spanning tree? MR. NEUKOM: Objection. Calls for opinion 15 you see that? 16 testimony, and the question is phrased in the A. Right. 16 17 hypothetical or abstract. 17 18 BY MR. WONG: 18 Q. Let me ask the question differently, 20 Mr. Lougheed. 20 21 What is the function served by a spanning 22 tree? 22 A. Correct. 23 MR. NEUKOM: Same objections. 23 24 b.bombadil? 24 THE WITNESS: The spanning tree is 25 essentially a data structure -- in effect is a data 25 Page 251 1 structure that allows bridges and other things that 2 forward at the MAC layer -- it tells them which 3 ports they should not forward packets on. 4 BY MR. WONG: 5 Q. When did first hear of the term "spanning 6 tree"? A. During my -- during Cisco. Probably late 8 '80s. 9 Q. You can set that document aside. 9 username. 10 MR. WONG: Let's have that marked as the 10 11 next exhibit, please. 12 (Exhibit 459 marked for identification.) 12 to --13 BY MR. WONG: 13 Q. The court reporter has marked as 14 Q. Yes. 15 Exhibit 459 a document bearing control numbers 15 16 KL-00001699 to 1763. 16 17 Mr. Lougheed, please take a moment to look 18 at Exhibit 459 and let me know -- well, and my first 19 question to you will be, do you recognize

20 Exhibit 459?

25 time-sharing.

A. Yes.

Q. And what is Exhibit 459?

24 I was working at the Stanford low overhead

A. It's a computer listing of my e-mail while

21

22

- O. And the Stanford low overhead 2 time-sharing, is that also -- does that also use the 3 acronym LOTS? Q. If you turn to the first page of 6 Exhibit 459, the Bates number ends in 1700. Let me 7 know when you're there. Q. There is a -- I guess this is an e-mail at 10 the top of the page ending in Bates Nos. 1700, 11 correct? Is that an e-mail at the top of the page 12 ending in Bates No. 1700? Q. And there's a CC there to b.bombadil? Do Q. Is that your e-mail address? A. That was my -- that was my user ID at the 19 LOTS computer facility. Q. Okay. So where "b.bombadil" appears in 21 Exhibit 459, that is your user ID, correct? Q. What does the "B" stand for for the A. So in the -- in 1976, when they set up the Page 253 1 student computing facility, they needed to support 2 several thousand users, and the operating system had 3 a limitation that it could only support some number 4 smaller than the total number of students. So what 5 they did was they created top level directories A 6 through Z, and then the dot indicates that there is 7 a subdirectory or, you know, a subuser of that. So 8 everybody's user ID had the initial letter, dot Q. Understood. I was wondering why it wasn't 11 T. Bombadil. But I'm assuming the Bombidel refers A. The Tolkien character. THE REPORTER: To what character? THE WITNESS: Tolkien. As in Lord of the 17 Rings. Or actually, as in the Hobbit. No. 18 Actually, it's Lord of the Rings. 19 BY MR. WONG: Q. I think it's Lord of the Rings.

- 20
- A. What can I say? I was an undergraduate. 21
- 22 I was stuck with that same username.
- 23 Q. I would have chosen Radagast.
- 24 Are you aware of the e-mail alias at Cisco
- 25 called Clueless@Cisco.com?

Page 254

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 66 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

	THORIET CONFIDENTIAL	- /1	TORNETS LIES ONET
	BY MR. WONG:		Q. When you added the "ip access-group"
	Q. Can access lists be associated with		2 command, did you consider using a different term
	3 different routing protocols?		other than "IP"?
4	A. Yes.	4	A. I do not recall whether we had switched
	MR. NEUKOM: Objection. Calls for opinion	4	everything to the IP's hierarchy then. I'd have to
1	testimony.		refer to the documentation to see whether or not we
1	BY MR. WONG:		actually had an IP hierarchy or whether we assumed
8			everything was IP.
9			
10	•	1 -	hierarchy already implemented at the time you added
11	what strike that.		the "ip access-group" command would you have
12		1	considered any other term besides "IP" in the "ip
	implemented access lists?	- 1	access-group" command?
14		14	-
	XNS, Banyan VINES, I believe. I'd have to go refer	1	speculation, and the question poses a hypothetical.
- 1	to the Cisco documentation, but I know that we did	16	
1	have access lists for a number of network protocols.		inverted the hierarchy. I'm sorry. The question is
18	·	1	again?
	knowledge, did you say Banyan VINES?		BY MR. WONG:
20		20	
21	and then VINES, as in	1	whether or not there had been an IP hierarchy
22		1	implemented at the time you added this "ip
23	THE WITNESS: As in red vines. Okay.	1	access-group" command?
24	BY MR. WONG:	24	
25	Q. As in a banyan tree?	25	Q. Assuming you checked and there was already
	Page 315		Page 317
1	A. A banyan tree.	1	an IP hierarchy in existence when you added the "ip
2	Q. So the "IP" word in the "ip access-group"		access-group" command, would you have changed th
3	command is meant to indicate that the access groups	3	first word to be anything other than "IP"?
4	are for the IP protocol, correct?	4	A. Given that I had made the made the
5	A. It is an indication that that command	5	choice of "IP" as the keyword indicating Internet
6	applies to the IP into the IP hierarchy of the		protocol-related stuff, I would have felt
7	interface command.	7	constrained to use that as the leading keyword.
8	Q. So if you were implementing access groups	8	Otherwise, it would be a seemingly asymmetric
9	for the XNS protocol, it would be "XNS	9	construction in the hierarchy.
10	access-group," right?	10	Q. How long did it take you to come up with
11	A. Yes.		the ""ip access-group"" command syntax?
12	Q. Have you had strike that.	12	A. Not very long. All I needed was some sort
13	Did you come up with the term "access	13	of keyword that had "access" in it and something
	group" in 1989?	1	after it to distinguish it between class and list.
15	A. That was the command expression I chose.	1	And as I said earlier, that was the best I could
16	Q. Well, was it the first had you heard of	1	come up with that day. I wasn't necessarily
	the term "access group" at the time that you added	1	terribly happy about it. It was not a terribly
1 .	this command to the Cisco IOS?		descriptive command, as far as I was concerned.
		19	Q. When you say "not very long," are you
19	A. No, I hadn't. I had previously	1	
20	implemented an "access class" command associated	t	talking about a matter of minutes?
20 21	implemented an "access class" command associated - for associating an access list with a terminal line.	21	A. Yep.
20 21 22	implemented an "access class" command associated - for associating an access list with a terminal line. And I needed something to associate it with an	21 22	A. Yep.Q. How long did you write the source code
20 21 22 23	implemented an "access class" command associated for associating an access list with a terminal line. And I needed something to associate it with an interface. And I was I just needed something	21 22 23	A. Yep. Q. How long did you write the source code for the "ip access-group" command?
20 21 22 23 24	implemented an "access class" command associated for associating an access list with a terminal line. And I needed something to associate it with an interface. And I was I just needed something different. And that was the best I could come up	21 22 23 24	A. Yep.Q. How long did you write the source code for the "ip access-group" command?A. For the original, yes.
20 21 22 23 24	implemented an "access class" command associated for associating an access list with a terminal line. And I needed something to associate it with an interface. And I was I just needed something	21 22 23	A. Yep. Q. How long did you write the source code for the "ip access-group" command?

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 67 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

1 source code for the original "ip access-group" 2 command? 3 A. So writing it for that command would have 4 been part of writing the entire functionality of 5 putting access lists onto interfaces, I guess on the 6 order of a day. 7 Q. If you turn to page 20 on Exhibit 464. 8 Let me know when you're there. 9 A. Okay. Tin on page 20. 10 Q. The second to the top command is 11 "mac-address." 12 Do you see that? 13 A. Uh-lub. 14 Q. Are you the originator of the 15 "mac-address" command? 16 A. Yes. 17 Q. How do you know that you're the originator of the 16 M. Yes. 17 Q. How do you know that you're the originator of of the "mac-address" command? 19 A. I remember the problem that I was solving 20 that I needed that sort of functionality. 21 Q. What was the problem that you were trying 22 to solve by the "mac-address" command? 23 A. I needed to send packets on a serial line 24 that actually which a serial line does not have 25 MAC addresses, but I needed to somehow get a MAC 26 you calling the command "mac-address" command? 27 A. I don't remember if the customer suggested 8 anything in that particular in than eaddress" 29 A. A. I don't remember if the customer suggested 8 anything in that particular in than eaddress" 31 A. It could be a serial line. It could be a call line? 32 A. Yes. I don't remember if the customer suggested 8 anything in that particular in than eaddress" 34 A. It could be a serial line. It could be a call line? 35 A. Yes. I don't remember if the customer suggested 8 anything in that particular in than eaddress" 4 or the details to it. 4 Oy And is the function of the "mac-address" 5 Oy Do you remember if the customer suggested 8 anything in that particular in than eaddress" 6 Oy Do you remember if the customer suggested 8 anything in that particular in than eaddress and the particular in than eaddress and the particular in than eaddress and the particular in than eaddress and the particular in than eaddress and the particular in than eaddress and the particular			1	
4 been part of writing the entire functionality of 5 putting access lists onto interfaces, I guess on the 6 order of a day. 7 Q. If you turn to page 20 on Exhibit 464. 8 Let me know when you're there, 9 A. Okay. I'm on page 20. 10 Q. The second to the top command is 1 "mac-address." 11 "mac-address." 12 Do you see that? 13 A. Uh-huh. 14 Q. Are you the originator of the 15 "mac-address." command? 16 A. Yes. 17 Q. How do you know that you're the originator 18 of the "mac-address" command? 18 of the "mac-address" command? 19 A. I remember the problem that I was solving 20 that I needed that sort of functionality. 21 Q. What was the problem that I was solving 20 that I needed to send packets on a serial line 24 that actually which a serial line does not have 25 MAC addresses, but I needed to somehow get a MAC Page 319 1 address associated with that particular serial line. 2 Q. Was that related to a client request? 3 A. I don't remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address"? 7 A. I don't remember if the customer suggested 8 on a serial line. It could be a serial line. It could be a serial line. It could be a count of the "mac-address"? 7 A. I don't remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address"? 7 A. I don't remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address"? 11 Q. Did you ever consider a command syntax of 4 to cramming across the interface a to 6 what it would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address" 19 date refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 0 totlog. What impact would it have, if any, on the 17 user if if it did. 21 Q. And we talked about th	1	l source code for the original "ip access-group"	1	But to your knowledge, MAC is an
4 MR. NEUKOM: Objection. Vague. Calls for 5 opinion. 5 putting access lists onto interfaces, I guess on the 6 order of a day. 7 Q. If you turn to page 20 on Exhibit 464. 8 Let me know when you're there. 9 A. Okay. I'm on page 20. 10 Q. The second to the top command is 11 "mac-address." 12 Do you see that? 13 A. Uh-huh. 14 Q. Are you the originator of the 15 "mac-address" command? 15 "mac-address" command? 16 A. Yes. 17 Q. How do you know that you're the originator of of the "mac-address" command? 18 of the "mac-address" command? 19 A. I remember the problem that I was solving 10 that I needed that sort of functionality. 21 Q. What was the problem that I was solving 10 that I needed that sort of functionality. 22 to solve by the "mac-address" command? 23 A. I needed to send packets on a serial line 24 that actually - which a serial line does not have 25 MAC addresses, but I needed to somehow get a MAC Page 319 1 address associated with that particular serial line. 2 Q. Was that related to a client request? 3 A. Yes. I don't remember the exact customer 4 or the details to it. 5 Q. Do you remember if the customer suggested 8 anything in that particular - in that particular 1 instance. 10 Q. And is the function of the "mac-address"? 7 A. I don't remember if the customer suggested 8 anything in that particular - in that particular 1 instance. 10 Q. And is the function of the "mac-address"? 11 command to associate a MAC address with a particular 1 instance. 10 Q. And is the function of the "mac-address" 1 of detest periods in commands and underscores. So this 7 was	2	2 command?	2	2 industry-standard term defined either on OSI or the
5 putting access lists onto interfaces, I guess on the 6 order of a day. 7 Q. If you turn to page 20 on Exhibit 464. 8 Let me know when you're there. 9 A. Okay. I'm on page 20. 10 Q. The second to the top command is 11 "mac-address." 11 "mac-address." 12 Do you see that? 13 A. Uh-huh. 14 Q. Are you the originator of the 15 "mac-address" command? 15 "mac-address" command? 16 A. Yes. 17 Q. How do you know that you're the originator 18 of the "mac-address" command? 18 of the "mac-address" command? 20 that I needed that sort of functionality. 21 Q. What was the problem that I was solving 20 that I needed that sort of functionality. 22 to solve by the "mac-address" command? 23 A. I needed to send packets on a serial line 24 that actually which a serial line does not have 25 MAC addressas, but I needed to somehow get a MAC 25 MAC addressas sociated with that particular serial line. 2 Q. Was that related to a client request? 3 A. Yes. I don't remember the exact customer 4 or the details to it. 4 or the details to it. 5 Q. Do you remember if the customer suggested 6 nyot calling the command "mac-address"? 7 A. I don't remember if the customer suggested 6 oyou calling the command "mac-address"? 7 A. A. I don't remember if the customer suggested 6 anything in that particular in tha	3	A. So writing it for that command would have	3	IEEE?
6 order of a day. 7 Q. If you turn to page 20 on Exhibit 464. 8 Let me know when you're there. 9 A. Okay. I'm on page 20. 10 Q. The second to the top command is 11 "mac-address." 12 Do you see that? 13 A. Uh-huh. 14 Q. Are you the originator of the 15 "mac-address" command? 16 A. Yes. 17 Q. How do you know that you're the originator of the "mac-address" command? 18 of the "mac-address" command? 19 A. I remember the problem that I was solving 20 that I needed that sort of functionality. 21 Q. What was the problem that I was solving 21 to solve by the "mac-address" command? 22 to solve by the "mac-address" command? 23 A. I needed to send packets on a serial line 24 that actually which a serial line does not have 25 MAC addresses, but I needed to somehow get a MAC 27 A. Yes. 10 Q. And is the function of the "mac-address"? 11 address associated with that particular serial line. 12 Q. Was that related to a client request? 13 A. Yes. I don't remember the exact customer 4 or the details to it. 14 or the details to it. 15 Q. Do you remember if the customer suggested 6 you calling the command "mac-address"? 16 A. I tooll the machaddress" command? 17 A. I tooll the machaddress" and that particular in that particular in that particular in stance. 18 Q. Did you ever consider a command syntax 2 without the hyphen between "mac" and "address"? 19 A. I tooll do a serial line. It could be 1 command to associate a MAC address with a particular 2 serial line? 20 Q. Was that reface a MAC address with a particular 2 serial line? 21 A. It could be a serial line. It could be 1 command to associate a MAC address with a particular 2 serial line? 22 A. Yes. 23 A. I tooll do a serial line. It could be 1 command to associate a MAC address with a particular 2 serial line? 24 A. Yes tool the details to it. 25 Q. Do you remember if the customer suggested 4 naything in that particular in that particular 2 serial line? 3 A. I tool the problem that you were consider a command syntax of 1 detest periods in commands and underscores. So this 1	4	been part of writing the entire functionality of	4	MR. NEUKOM: Objection. Vague. Calls for
7 Q. If you turn to page 20 on Exhibit 464.	5	5 putting access lists onto interfaces, I guess on the	5	opinion.
8 Let me know when you're there, 9 A. Okay. I'm on page 20. 10 Q. The second to the top command is 11 "mac-address." 12 Do you see that? 13 A. Uh-huh. 14 Q. Are you the originator of the 15 "mac-address" command? 15 "mac-address" command? 16 A. Yes. 17 Q. How do you know that you're the originator of the "mac-address" command? 18 of the "mac-address" command? 19 A. I remember the problem that I was solving 20 that I needed that sort of functionality. 21 Q. What was the problem that you were trying 21 to solve by the "mac-address" command? 22 to solve by the "mac-address" command? 23 A. I needed to send packets on a serial line 24 that actually which a serial line does not have 25 MAC addresses, but I needed to somehow get a MAC Page 319 1 address associated with that particular serial line. 2 Q. Was that related to a client request? 3 A. Yes. I don't remember if the customer suggested 6 you calling the command" mac-address" 4 or the details to it. 5 Q. Do you remember if the customer suggested 8 anything in that particular in that pa	6	order of a day.	6	BY MR. WONG:
9 A. Okay. I'm on page 20. 9 "MAC address." 10 Q. And at the time that you added the 11 "mac-address." 12 Do you see that? 12 Do you see that? 13 A. Uh-huh. 13 address." 14 Q. Are you the originator of the 15 "mac-address" command? 15 Mac-address" command? 16 A. Yes. 17 Q. How do you know that you're the originator of of the "mac-address" command? 18 A. I on the member the problem that I was solving 20 that I needed that sort of functionality. 21 Q. What was the problem that you were trying 22 to solve by the "mac-address" command? 18 A. I of the "mac-address" command? 18 A. I of the "mac-address" command? 19 A. I remember the problem that you were trying 22 to solve by the "mac-address" command? 22 Q. Why do you say that? 22 Q. How long did it take you to come up with 16 How long did it take you to come up with 17 the syntax for the "mac-address" command? 18 A. I don't remember how long. I suspect it 19 was less than a day. 20 Q. Why do you say that? 21 Q. How long did it take you to come up with 18 A. Yes. 18 A. I tend to make decisions quickly. 22 Q. How long did it take you to come up with 18 A. I form the syntax for the "mac-address" command? 20 Q. Why do you say that? 21 Q. How long did it take you to come up with 21 was less than a day. 22 Q. How long did it take you to come up with 22 Q. Why do you say that? 23 A. I tend to make decisions quickly. 22 Q. How long did it take you to come up with 18 A. Yes. 18 A. I form the "mac-address" command? 21 A. I tend to make decisions quickly. 22 Q. How long did it take you to come up with 18 A. I tend to make decisions quickly. 22 Q. How long did it take you to write the 23 source code for the functionality associated with 24 that actually an internace address." 25 A. I tend to make decisions quickly. 26 A. I tend to make decisions quickly. 27 A. I tend to make d	7	Q. If you turn to page 20 on Exhibit 464.	7	Q. Correct?
10 Q. And at the time that you added the	8	•	8	A. I believe at least IEEE has used the term
11 "mac-address." 12 Do you see that? 12 your knowledge, already started using the term "MAC 13 address." 14 A. Yes. 15 "mac-address" command? 16 A. Yes. 16 How long did it take you to come up with 17 the syntax for the "mac-address" command? 17 Q. What was the problem that I was solving 18 A. I combat do serial line 19 AC addresses, but I needed to seen dapackets on a serial line 2 Q. Was that related to a client request? 2 A. Yes. 16 How long did it take you to come up with 17 the syntax for the "mac-address" command? 18 A. I don't remember how long. I suspect it 19 was less than a day. 20 Q. Why do you say that? 21 A. I tend to make decisions quickly. 22 Q. How long did it take you to come up with 17 the syntax for the "mac-address" command? 18 A. I don't remember how long. I suspect it 19 was less than a day. 20 Q. Why do you say that? 21 A. I tend to make decisions quickly. 22 Q. How long did it take you to come up with 17 the syntax for the "mac-address" command? 18 A. I don't remember how long. I suspect it 19 was less than a day. 20 Q. Why do you say that? 21 A. I tend to make decisions quickly. 22 Q. How long did it take you to come up with 17 the syntax for the "mac-address" command? 22 Q. Why do you say that? 23 A. I tend to make decisions quickly. 24 How long did it take you to come up with 18 A. I don't remember how long. I suspect it 19 was less than a day. 20 Q. Why do you say that? 21 A. I tend to make decisions quickly. 22 Q. How long did it take you to come up with 18 A. I don't remember how long. I suspect it 19 was less than a day. 20 Q. Why do you say that? 21 A. I then to make decisions quickly. 22 Q. How long did it take you to write the 23 our code for the functionality associated with 24 the "mac-address" command? 24 the "mac-address" command? 25 Q. What taleted to a client request? 24 Q. Did you ever consider a command syntax of 24 to camming the words together. I like command to	9		9	"MAC address."
12 Do you see that? 13 A. Uh-huh. 13 address." 14 A. Yes. 15 "mac-address" command? 16 A. Yes. 17 Q. How do you know that you're the originator 18 of the "mac-address" command? 18 A. I remember the problem that I was solving 20 that I needed that sort of functionality. 21 Q. What was the problem that I was solving 21 to solve by the "mac-address" command? 23 A. I needed to send packets on a serial line 24 that actually which a serial line does not have 25 MAC addresses, but I needed to somehow get a MAC Page 319	10	•	10	Q. And at the time that you added the
13 A. Uh-huh. 14 Q. Are you the originator of the 15 "mac-address" command? 16 A. Yes. 17 Q. How do you know that you're the originator 18 of the "mac-address" command? 19 A. I remember the problem that I was solving 20 that I needed that sort of functionality. 21 Q. What was the problem that you were trying 22 to solve by the "mac-address" command? 23 A. I needed to send packets on a serial line 24 that actually which a serial line does not have 25 MAC addresses, but I needed to somehow get a MAC page 319 1 address associated with that particular serial line. 2 Q. Was that related to a client request? 3 A. Yes. I don't remember if the customer 4 or the details to it. 5 Q. Do you remember if the customer suggested 6 you calling the command "mac-address"? 7 A. I don't remember if the customer suggested 8 anything in that particular in that particular sinstance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular serial line? 2 serial line? 3 A. It could be a serial line. It could be a command? that would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Wes. 21 Q. And we talked about that media access 21 Q. And we talked about that media access 22 Mac that related to a client request? 3 A. I toould that particular in that particular since the customer suggested and the customer sugges	11	"mac-address."	11	"mac-address" command to Cisco IOS, had the IEEE, to
14 A. Yes. 15 "mac-address" command? 16 A. Yes. 17 Q. How do you know that you're the originator 18 of the "mac-address" command? 19 A. I remember the problem that I was solving 20 that I needed that sort of functionality. 21 Q. What was the problem that you were trying 22 to solve by the "mac-address" command? 23 A. I needed to send packets on a serial line 24 that actually which a serial line does not have 25 MAC addresses, but I needed to somehow get a MAC addresses, but I needed to somehow get a MAC addresses, but I needed to somehow get a MAC or the details to it. 2 Q. Was that related to a client request? 3 A. Yes. I don't remember the exact customer 4 or the details to it. 5 Q. Do you remember if the customer suggested 6 you calling the command "mac-address"? 7 A. I don't remember if the customer suggested 8 anything in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 12 serial line? 13 A. It could be a serial line, It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 (what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 21 Q. And we talked about that media access 22 Mand we talked about that media access 23 Mand we talked about that media access 24 MR. NEUKOM: Objection. Hypothetical	12	Do you see that?	12	your knowledge, already started using the term "MAC
15 "mac-address" command? 16	1		13	address"?
16	14		14	A. Yes.
17 Q. How do you know that you're the originator of the "mac-address" command? 18 of the "mac-address" command? 20 that I needed that sort of functionality. 21 Q. What was the problem that I was solving 22 to solve by the "mac-address" command? 23 A. I needed to send packets on a serial line 24 that actually which a serial line does not have 25 MAC addresses, but I needed to somehow get a MAC Page 319 1 address associated with that particular serial line. 2 Q. Was that related to a client request? 3 A. Yes. I don't remember the exact customer 4 or the details to it. 5 Q. Do you remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 2 serial line? 11 command to associate a MAC address with a particular 2 serial line? 12 serial line? 13 A. It could be a serial line. It could be 4 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 21 Q. And we talked about that media access 20 Trace 21 Q. And we talked about that media access 20 "mac-address," as opposed to	15	"mac-address" command?	15	Q. How long did it take you strike that.
18 of the "mac-address" command? 19 A. I remember the problem that I was solving 20 that I needed that sort of functionality. 21 Q. What was the problem that you were trying 22 to solve by the "mac-address" command? 23 A. I needed to send packets on a serial line 24 that actually which a serial line does not have 25 MAC addresses, but I needed to somehow get a MAC Page 319 1 address associated with that particular serial line. 2 Q. Was that related to a client request? 3 A. Yes. I don't remember the exact customer 4 or the details to it. 5 Q. Do you remember if the customer suggested 4 or the details to it. 5 Q. Do you remember if the customer suggested 4 or the details to it. 6 you calling the command "mac-address"? 7 A. I don't remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 2 serial line? 12 A. Yes. 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 was less than a day. 20 Q. Why do you say that? 21 A. I tend to make decisions quickly. 22 Q. How long did it take you to write the 23 source code for the functionality associated with 24 the "mac-address" command? 25 A. It was probably the same day. 26 A. It was probably the same day. 27 A. It was probably the same day. 28 A. It was probably the same day. 29 A. It was probably the same day. 20 Did you ever consider a command syntax 21 A. It was probably the same day. 21 A. It was probably the same day. 22 A. It was probably the same day. 23 A. It was probably the same day. 24 the "mac-address" command? 24 the "mac-address" command? 25 A. It was probably the same day. 26 A. It was probably the same day. 27 A. It was probably the same day. 28 A. It was probably the same day. 29 C. Did you ever consider a command synt	16		1	_ , , , , , , , , , , , , , , , , , , ,
19 A. I remember the problem that I was solving 20 that I needed that sort of functionality. 21 Q. What was the problem that you were trying 22 to solve by the "mac-address" command? 23 A. I needed to send packets on a serial line 24 that actually which a serial line does not have 25 MAC addresses, but I needed to somehow get a MAC Page 319 1 address associated with that particular serial line. 2 Q. Was that related to a client request? 3 A. Yes. I don't remember the exact customer 4 or the details to it. 5 Q. Do you remember if the customer suggested 6 you calling the command "mac-address"? 7 A. I don't remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 12 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 was less than a day. 20 Q. Why do you say that? 21 A. It end to make decisions quickly. 22 Q. How long did it take you to write the 23 source code for the functionality associated with 24 the "mac-address" command? 25 A. It was probably the same day. Page 319 1 Q. Did you ever consider a command syntax of without the hyphen between "nac" and "address"? 3 A. Stylistically, I prefer dashes as opposed to command syntax of that have an English-like flavor to them. And I detest periods in commands and underscores. So this 7 was Q. Did you ever consider a command syntax of that have an English-like flavor to them. And I detest periods in commands and underscores. So this 7 was Q. Did you ever consider a command syntax of a care and address with a particular and address with a particular acroad with that particular acroad with that particular acroad with that particular acroad with that particular acroad with that particular acroad with that par	17	Q. How do you know that you're the originator	17	the syntax for the "mac-address" command?
20 that I needed that sort of functionality. 21 Q. What was the problem that you were trying 22 to solve by the "mac-address" command? 23 A. I needed to send packets on a serial line 24 that actually which a serial line does not have 25 MAC addresses, but I needed to somehow get a MAC Page 319 1 address associated with that particular serial line. 2 Q. Was that related to a client request? 3 A. Yes. I don't remember the exact customer 4 or the details to it. 5 Q. Do you remember if the customer suggested 4 or the details to it. 5 Q. Do you remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 2 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. Moy to you say that? 22 A. I tend to make decisions quickly. 22 Q. How long did it take you to write the 23 source code for the functionality associated with 24 the "mac-address" command? 25 A. It was probably the same day. 26 A. It was probably the same day. 27 A. It was probably the same day. 28 without the hyphen between "mac" and "address"? 3 A. Stylistically, I prefer dashes as opposed 4 to cramming the words together. I like commands that have an English-like flavor to them. And I detest periods in commands and underscores. So this 7 was 3 Q. Did you ever consider two let me strike 9 that. 3 Q. Did you ever consider a command syntax of 14 "mac address"? 11 of a command? 12 A. Yes. 13 Q. Did you ever consider a command syntax of 14 "mac address"? 14 (mac address"? 15 A. I don't recall if I did. 16 Q. What impact would it have, if any, on the 17 user if strike that. 18 Would the CLI behave differently if the 19 command was "mac address," a	18	of the "mac-address" command?	18	A. I don't remember how long. I suspect it
21 Q. What was the problem that you were trying 22 to solve by the "mac-address" command? 23 A. I needed to send packets on a serial line 24 that actually which a serial line does not have 25 MAC addresses, but I needed to somehow get a MAC Page 319 1 address associated with that particular serial line. 2 Q. Was that related to a client request? 3 A. Yes. I don't remember the exact customer 4 or the details to it. 5 Q. Do you remember if the customer suggested 4 oyou calling the command "mac-address"? 7 A. I don't remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 22 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 21 A. I tend to make decisions quickly. 22 A. How long did it take you to write the 23 source code for the functionality associated with 24 the "mac-address" command? 25 that nave and English-like flavor to them. And I 6 detest periods in commands and underscores. So this 7 was 8 Q. Did you ever consider two let me strike 9 that. 10 Do you know what a token is in the context 11 of a command? 12 A. Yes. 13 Q. Did you ever consider a command syntax of 14 "mac address"? 15 A. I don't recall if I did. Q. What impact would it have, if any, on the 17 user if strike that. 18 Would the CLI behave differently if the 19 command was "mac address," as opposed to 20 "mac-address"? 21 MR. NEUKOM: Objection. Hypothetical	1	·	19	was less than a day.
22 to solve by the "mac-address" command? 23 A. I needed to send packets on a serial line 24 that actually which a serial line does not have 25 MAC addresses, but I needed to somehow get a MAC Page 319 1 address associated with that particular serial line. 2 Q. Was that related to a client request? 3 A. Yes. I don't remember the exact customer 4 or the details to it. 5 Q. Do you remember if the customer suggested 4 or the details to it. 5 Q. Do you remember if the customer suggested 5 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 12 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 22 Q. How long did it take you to write the 23 source code for the functionality associated with 24 the "mac-address" command? 24 the "mac-address" command? 25 A. It was probably the same day. Page 321 2 Without the hyphen between "mac" and "address"? 3 A. Stylistically, I prefer dashes as opposed 4 to cranming the words together. I like commands 5 that have an English-like flavor to them. And I 6 detest periods in commands and underscores. So this 7 was 8 Q. Did you ever consider two let me strike 9 that. 10 Do you know what a token is in the context 11 of a command? 12 A. Yes. 13 Q. Did you ever consider a command syntax of 14 "mac address"? 15 A. I don't recall if I did. 16 What impact would it have, if any, on the 17 user if strike that. 18 Would the CLI behave differently if the 19 command was "mac address," as opposed to 20 "mac-address"? 21 MR. NEUKOM: Objection. Hypothetical	20	that I needed that sort of functionality.	20	Q. Why do you say that?
A. I needed to send packets on a serial line 24 that actually which a serial line does not have 25 MAC addresses, but I needed to somehow get a MAC Page 319 1 address associated with that particular serial line. 2 Q. Was that related to a client request? 3 A. Yes. I don't remember the exact customer 4 or the details to it. 5 Q. Do you remember if the customer suggested 6 you calling the command "mac-address"? 7 A. I don't remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 12 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 Was that related to a client request? 27 A. I don't remember if the customer suggested 28 anything in that particular in that particular 29 instance. 30 A. It could be a serial line. It could be 40 command to associate a MAC address with a particular 41 command to associate a mach and a command some and underscores. So this of a command? 42 without the hyphen between "mac" and "address"? 43 A. Stylistically, I prefer dashes as opposed to a cramming the words together. I like commands that have an English-like flavor to them. And I detest periods in commands and underscores. So this of a command? 4 was 4 Q. Did you ever consider two let me strike that. 4 Do you know what a token is in the context of a command? 4 "mac address"? 4 A. It don't recall if I did. 4 What impact would it have, if any, on the of the words "mac-address," as opposed to an address." 5 Q. A. Yes. 16 Q. And we talked about that media access 17 Was 8 Q. Did you ever consider a command syntax of a command? 18 Was 19 Was interface. It would depend what the could depend what the would do. 10 Q. What impact would it have, if any, on the of the words "mac-address," as opposed to one mand of the words "mac-address	21	Q. What was the problem that you were trying	21	A. I tend to make decisions quickly.
24 that actually which a serial line does not have 25 MAC addresses, but I needed to somehow get a MAC Page 319 1 address associated with that particular serial line. 2 Q. Was that related to a client request? 3 A. Yes. I don't remember the exact customer 4 or the details to it. 5 Q. Do you remember if the customer suggested 6 you calling the command "mac-address"? 6 A. I don't remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 12 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 24 the "mac-address" command? 25 A. It was probably the same day. 25 A. It was probably the same day. 26 A. It was probably the same day. 27 A. It was probably the same day. 28 A. It was probably the same day. 29 A. It was probably the same day. 20 Did you ever consider a command syntax 2 without the hyphen between "mac" and "address"? 3 A. Stylistically, I prefer dashes as opposed 4 to cramming the words together. I like commands 5 that have an English-like flavor to them. And I 6 detest periods in commands and underscores. So this 7 was 8 Q. Did you ever consider two let me strike 9 that. 10 Do you know what a token is in the context 11 of a command? 12 A. Yes. 13 Q. Did you ever consider a command syntax of 14 "mac address"? 15 A. I don't recall if I did. 16 Q. What impact would it have, if any, on the 17 user if strike that. 18 Would the CLI behave differently if the 19 command was "mac address," as opposed to 20 "mac-address"? 21 MR. NEUKOM: Objection. Hypothetical	22	to solve by the "mac-address" command?	22	Q. How long did it take you to write the
25 MAC addresses, but I needed to somehow get a MAC Page 319 1 address associated with that particular serial line. 2 Q. Was that related to a client request? 3 A. Yes. I don't remember the exact customer 4 or the details to it. 5 Q. Do you remember if the customer suggested 6 you calling the command "mac-address"? 7 A. I don't remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 12 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 10 A. It was probably the same day. Page 321 A. It was probably the same day. Page 321 A. It was probably the same day. Page 321 A. It was probably the same day. Page 321 A. It was probably the same day. Page 321 A. It was probably the same day. Page 321 A. It was probably the same day. Page 321 A. It was probably the same day. Page 321 A. It was probably the same day. Page 321 A. It was probably the same day. 2 without the hyphen between "mac" and "address"? 4 to cramming the words together. I like commands that have an English-like flavor to them. And I detest periods in commands and underscores. So this 7 was 8 Q. Did you ever consider two let me strike 9 that. 10 Do you know what a token is in the context 11 of a command? 11 address as opposed to 20 by undertally any interface as to 15 A. I don't recall if I did. Q. What impact would it have, if any, on the 17 user if strike that. Would the CLI behave differently if the 18 command was "mac address," as opposed to 20 "mac-address"? 21 MR. NEUKOM: Objection. Hypothetical	23	A. I needed to send packets on a serial line	23	source code for the functionality associated with
1 address associated with that particular serial line. 2 Q. Was that related to a client request? 3 A. Yes. I don't remember the exact customer 4 or the details to it. 5 Q. Do you remember if the customer suggested 6 you calling the command "mac-address"? 7 A. I don't remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 12 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 21 Q. And we talked about that media access 21 MR. NEUKOM: Objection. Hypothetical	24	that actually which a serial line does not have	24	the "mac-address" command?
1 address associated with that particular serial line. 2 Q. Was that related to a client request? 3 A. Yes. I don't remember the exact customer 4 or the details to it. 5 Q. Do you remember if the customer suggested 6 you calling the command "mac-address"? 7 A. I don't remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 12 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 21 Q. And we talked about that media access 22 MR. NEUKOM: Objection. Hypothetical	25		25	
2 Without the hyphen between "mac" and "address"? 3 A. Yes. I don't remember the exact customer 4 or the details to it. 5 Q. Do you remember if the customer suggested 6 you calling the command "mac-address"? 7 A. I don't remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 12 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 22 without the hyphen between "mac" and "address"? 3 A. Stylistically, I prefer dashes as opposed 4 to cramming the words together. I like commands 5 that have an English-like flavor to them. And I 6 detest periods in commands and underscores. So this 7 was 8 Q. Did you ever consider two let me strike 9 that. 10 Do you know what a token is in the context 11 of a command? 12 A. Yes. 13 Q. Did you ever consider a command syntax of 14 "mac address"? 15 A. I don't remember if the customer suggested 16 detest periods in commands and underscores. So this 7 was 8 Q. Did you ever consider a command syntax of 14 "mac address"? 15 A. I don't remember if the customer suggested 16 detest periods in commands and underscores. So this 7 was 8 Q. Did you ever consider a command syntax of 14 "mac address"? 15 A. I don't remember if the customer suggested 16 detest periods in commands and underscores. So this 7 was 8 Q. Did you ever consider a command syntax of 14 "mac address"? 15 A. I don't remember if the customer suggested 16 Q. What impact would it have, if any, on the 17 user if strike that. 18 Would the CLI behave differently if the 19 command was "mac address," as oppo		Page 319		Page 321
2 Without the hyphen between "mac" and "address"? 3 A. Yes. I don't remember the exact customer 4 or the details to it. 5 Q. Do you remember if the customer suggested 6 you calling the command "mac-address"? 7 A. I don't remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 12 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 22 without the hyphen between "mac" and "address"? 3 A. Stylistically, I prefer dashes as opposed 4 to cramming the words together. I like commands 5 that have an English-like flavor to them. And I 6 detest periods in commands and underscores. So this 7 was 8 Q. Did you ever consider two let me strike 9 that. 10 Do you know what a token is in the context 11 of a command? 12 A. Yes. 13 Q. Did you ever consider a command syntax of 14 "mac address"? 15 A. I don't remember if the customer suggested 16 detest periods in commands and underscores. So this 7 was 8 Q. Did you ever consider a command syntax of 14 "mac address"? 15 A. I don't recall if I did. 16 Q. What impact would it have, if any, on the 17 user if strike that. 18 Would the CLI behave differently if the 19 command was "mac address," as opposed to 20 "mac-address"? 21 MR. NEUKOM: Objection. Hypothetical	1	address associated with that particular serial line.	1	Q. Did you ever consider a command syntax
3 A. Yes. I don't remember the exact customer 4 or the details to it. 5 Q. Do you remember if the customer suggested 6 you calling the command "mac-address"? 7 A. I don't remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 12 serial line? 13 A. Stylistically, I prefer dashes as opposed 4 to cramming the words together. I like commands 5 that have an English-like flavor to them. And I 6 detest periods in commands and underscores. So this 7 was 8 Q. Did you ever consider two let me strike 9 that. 10 Do you know what a token is in the context 11 of a command? 12 A. Yes. 13 Q. Did you ever consider a command syntax of 14 "mac address"? 15 protocols are running across the interface as to 16 detest periods in commands and underscores. So this 7 was 18 Q. Did you ever consider two let me strike 9 that. 10 Do you know what a token is in the context 11 of a command? 12 A. Yes. 13 Q. Did you ever consider a command syntax of 14 "mac address"? 15 A. I don't recall if I did. 16 Q. What impact would it have, if any, on the 17 user if strike that. 18 Would the CLI behave differently if the 19 that refers to media access control, correct? 19 Command was "mac address," as opposed to 20 "mac-address"? 21 MR. NEUKOM: Objection. Hypothetical	1		2	
4 to cramming the words together. I like commands 5 Q. Do you remember if the customer suggested 6 you calling the command "mac-address"? 6 A. I don't remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 12 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 21 MR. NEUKOM: Objection. Hypothetical	3		ŀ	
5 Q. Do you remember if the customer suggested 6 you calling the command "mac-address"? 7 A. I don't remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 12 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 21 MR. NEUKOM: Objection. Hypothetical	4	or the details to it.	4	
6 you calling the command "mac-address"? 7 A. I don't remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 12 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 detest periods in commands and underscores. So this 7 was 8 Q. Did you ever consider two let me strike 9 that. 10 Do you know what a token is in the context 11 of a command? 12 A. Yes. 13 Q. Did you ever consider a command syntax of 14 "mac address"? 15 A. I don't recall if I did. 16 Q. What impact would it have, if any, on the 17 user if strike that. 18 Would the CLI behave differently if the 19 that refers to media access control, correct? 19 A. Yes. 20 MR. NEUKOM: Objection. Hypothetical	5	Q. Do you remember if the customer suggested	l .	
7 A. I don't remember if the customer suggested 8 anything in that particular in that particular 9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 12 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 21 MR. NEUKOM: Objection. Hypothetical	6		6	detest periods in commands and underscores. So this
9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 12 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 21 MR. NEUKOM: Objection. Hypothetical	7		7	was
9 instance. 10 Q. And is the function of the "mac-address" 11 command to associate a MAC address with a particular 12 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 21 MR. NEUKOM: Objection. Hypothetical	8	anything in that particular in that particular	8	Q. Did you ever consider two let me strike
11 command to associate a MAC address with a particular 12 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 21 MR. NEUKOM: Objection. Hypothetical			9	
12 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 21 MR. NEUKOM: Objection. Hypothetical	10	Q. And is the function of the "mac-address"	10	Do you know what a token is in the context
12 serial line? 13 A. It could be a serial line. It could be 14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 21 MR. NEUKOM: Objection. Hypothetical	11		11	·
14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 21 Wmac address"? 22 MR. NEUKOM: Objection. Hypothetical			12	A. Yes.
14 actually any interface. It would depend what 15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 21 Wmac address"? 22 MR. NEUKOM: Objection. Hypothetical	13	A. It could be a serial line. It could be	13	Q. Did you ever consider a command syntax of
15 protocols are running across the interface as to 16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 21 MR. NEUKOM: Objection. Hypothetical	14	actually any interface. It would depend what	14	
16 what it would do. 17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 16 Q. What impact would it have, if any, on the 17 user if strike that. 18 Would the CLI behave differently if the 19 command was "mac address," as opposed to 20 "mac-address"? 21 MR. NEUKOM: Objection. Hypothetical		• •	15	A. I don't recall if I did.
17 Q. And what is strike that. 18 The MAC part of the words "mac-address," 19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 17 user if strike that. 18 Would the CLI behave differently if the 19 command was "mac address," as opposed to 20 "mac-address"? 21 MR. NEUKOM: Objection. Hypothetical			16	Q. What impact would it have, if any, on the
19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 19 command was "mac address," as opposed to 20 "mac-address"? 21 MR. NEUKOM: Objection. Hypothetical	17	Q. And what is strike that.	17	· · · · · · · · · · · · · · · · · · ·
19 that refers to media access control, correct? 20 A. Yes. 21 Q. And we talked about that media access 19 command was "mac address," as opposed to 20 "mac-address"? 21 MR. NEUKOM: Objection. Hypothetical	18	The MAC part of the words "mac-address,"	18	Would the CLI behave differently if the
20 A. Yes. 20 "mac-address"? 21 Q. And we talked about that media access 21 MR. NEUKOM: Objection. Hypothetical	19		19	· · · · · · · · · · · · · · · · · · ·
21 Q. And we talked about that media access 21 MR. NEUKOM: Objection. Hypothetical		· · · · · · · · · · · · · · · · · · ·		
	21	Q. And we talked about that media access		
· · · · · · · · · · · · · · · · · · ·	22	1	22	* **
23 A. I think we were wondering whether it was 23 THE WITNESS: Well, it behaves differently				-
24 OSI or IEEE. 24 in that instead of one token, there's two tokens.	24	_	24	•
25 Q. Thank you. 25 So there would be that.	25	Q. Thank you.		1
Page 320 Page 322		Page 320		Page 322

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 68 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

	INOIL1 CONFIDENTIAL	- / 1	TIORNETS ETES ONET
1	but for different protocols, then it was a very easy		BY MR. WONG:
2	2 generalization.	2	Q. The court reporter has marked Exhibit 467,
3	Q. So a matter of minutes?	3	3 a document bearing control numbers
4	A. Once the decision had been made to do	4	ARISTANDCA00032440 to 32812.
5	5 that, yes.	5	And my only question for you,
6	Q. What do you think is creative about the	1	6 Mr. Lougheed, on this document marked as Exhibit 467
7	command "show ip route"?	7	is, is this one of the ANSI/IEEE standards that
8	MR. NEUKOM: Objection. Calls for opinion	8	defines a spanning tree?
9	and legal conclusion.	9	MR. NEUKOM: Objection. Vague. Also
10	THE WITNESS: So for the "route" command,	10	calls for opinion testimony. And to the extent that
11	I originally needed some way of saying what I	11	you can find a way to answer this question insofar
12	needed was a way of indicating to the software that	ı	as the task is an assessment of a document which is
1	if I had a packet destined for a particular network,	13	double-sided, still over an inch thick, and appears
1	which is the first argument, that I send it to a		to have
1	particular IP address, which is the IP address of a	15	THE WITNESS: 10-point font.
1	router. And one of those list of network and router	16	
17	pairs may actually be the default, if I didn't find	17	pages. And that's right, size 6 font, size 8 font.
i i	a network mentioned anywhere and couldn't figure out	1	It's an unreasonable question on its face.
1	what to do with it. Otherwise, send it to this	1	BY MR. WONG:
1	particular router or gateway. Those are the pieces	20	Q. Let me ask it this way, Mr. Lougheed.
ł	of information that I needed, and I just I chose	21	At the top of page 467, top right, you see
1	the name "route." And "IP route" came along	22	it says "1998 edition," right?
ì	afterwards.	23	A. Yes.
24	BY MR. WONG:	24	Q. Have you seen IEEE/ANSI standards before?
25	Q. Are you the originator of the "show	25	A. Yes.
	Page 331		Page 333
1	spanning-tree" command?	1	Q. From the first page of Exhibit 467, do you
2	A. Yes, I am.	2	have any reason to doubt that this is an IEEE
3	Q. What is a spanning tree?	3	standard?
4	A. My testimony earlier in the day addresses	4	MR. NEUKOM: Objection. Vague. Calls for
5	that question.	5	opinion testimony. And lack of foundation,
6	Q. So thank you.	6	THE WITNESS: I'm willing to accept the
7	And your explanation of what is a spanning	7	assertion that it's an IEEE standard.
	tree earlier in today's deposition would be the same	8	BY MR. WONG:
9	for my question regarding the "show spanning-tree"	9	Q. Had you ever reviewed the ANSI/IEEE
10	command; is that correct?	10	standard 802.1D 1998 edition?
11	A. Right.	11	A. I have never reviewed the 1998 edition of
12	Q. And what functionality does the "show	12	IEEE 802.1D.
13	spanning-tree" command perform?	13	Q. Have you ever reviewed any other editions
14	A. It displayed global parameters having to	14	of 802.1D?
15	do with the spanning tree and interface-specific	15	A. A much earlier version.
	parameters having to do with the spanning tree on	16	Q. In that much earlier you can set that
17	the box.	17	down, Mr. Lougheed.
18	Q. And the term "spanning tree," you didn't	18	In that earlier version of 802.1D, do you
19	come up with that, right, Mr. Lougheed?	19	recall whether the standard used the term "spanning
20	A. No, I didn't.	1	tree"?
21	Q. The term "spanning tree" is used in	21	MR. NEUKOM: Objection. Vague. I'm
22	ANSI/IEEE standards, correct?	22	pretty sure if that document uses the word
23	A. Yes. To my knowledge.	ı	"standard" the way the document before uses the word
24	(Exhibit 467 marked for identification.)	ı	"standard," the document presupposes a
25	1111		mischaracterization of the document.
	Page 332		Page 334

37 (Pages 331 - 334)

Page 334

Page 332

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 69 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

	HIGHLY CONFIDENTIAL	- A'	ITORNEYS' EYES ONLY
	BY MR. WONG:	1	MR. NEUKOM: Objection. Calls for opinion
			testimony.
3	7	3	•
4			mean by the word "creative."
	5 802.1D standard that you have reviewed strike	1	BY MR. WONG:
1	5 that.	6	
			creativity to come up with the command "show
7	You just testified that you had reviewed an earlier version of the 802.1D standard earlier	- I	The state of the s
		8	1 3
	than the 1998 edition, right?	19	
10		· I	opinion testimony. Also calls for a legal
11		1	conclusion.
	that version of the 802.1D standard was?	12	
13	•	1	should still try to answer these questions to the
1	reviewed something like that would have been '87 or		best of your ability.
15	'88.	15	-
16	` '	1	BY MR. WONG:
1	802.1D standard that you would have reviewed in 1987	17	
	or '88, do you recall whether the word "spanning	18	to come up with the command "show spanning-tree"?
19	tree" existed in that document?	19	A. I do believe that it shows a degree of
20	A. No, I don't recall if that word appeared	20	creativity.
21	there.	21	Q. And describe go ahead.
22	Q. But when you came up with the "show	22	A. I mean
23	spanning-tree" command for Cisco IOS, had you heard	23	Q. Were you done with your answer?
24	of the term "spanning tree" before that?	24	A. Yes.
25	A. Yes, I had.	25	Q. And what is creative about the command
	Page 335		Page 337
1	Q. And why did you choose to put a hyphen	1	"show spanning-tree"?
2	between the words "spanning" and "tree"?	2	MR. NEUKOM: Objection. Calls for a legal
3	A. Because I like English phrases and I like	3	
Į.	separating them with dashes.	4	THE WITNESS: And I just I'm not sure
5	Q. Why did you	5	what the hell you mean by "creative."
6	A. And I saw go ahead.	1	BY MR. WONG:
7	Q. No, no. I interrupted you, Mr. Lougheed.	7	Q. Have you do you know what the word
1	Go ahead.	8	"creative" means?
9	A. And I had no concept or no belief at the	9	What do you understand the word "creative"
1	time that I would need to turn that into a	1	to mean? The question is, what do you understand
	hierarchy.	1	the word "creative" to mean?
12	Q. And when you say refer to a need to	12	MR, NEUKOM: Objection to form.
1	turn it into a hierarchy, are you referring to the	13	THE WITNESS: It's the ability to create
	· · · · · · · · · · · · · · · · · · ·	ł	things. And I was creating a command expression to
	option of using a space instead of a hyphen in between the word "spanning" and "tree"?	i .	
ì		1	monitor a piece of complex software.
16	A. Yes.	16	What do you mean by "creative"?
17	Q. How long did it take for you to come up	l	BY MR. WONG:
i	with the command "show spanning-tree," the syntax?	18	Q. I'm going to use your definition of
19	A. The syntax? Once I had the protocol	l .	creative here, Mr. Lougheed. Under your definition
1	working, wouldn't have been very long.	1	of "creative," what's creative about the "show
21	Q. Matter of minutes?		spanning-tree" command?
22	A. Less than a day.	22	MR. NEUKOM: Objection. Calls for opinion
23	Q. Do you think the command "show	1	testimony and calls for a legal conclusion.
1	spanning-tree" is creative?	24	THE WITNESS: Writing any piece of
25	A. I don't understand.	25	software involves some degree of creativity. It may
1	Page 336		Page 338

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 70 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

Q. And actually, if you look on that same 1 Q. Do you have to --2 page, page 42 of Exhibit 464, the command right 2 A. It's either "routing-protocol" or 3 above it is "timers basic (RIP)." 3 "router." The command form changed in that time 4 Do you see that? 4 frame. But it's the same -- it's the same concept. 5 A. Uh-huh. O. So just so I understand, Mr. Lougheed, 6 Q. And you are also the originator of that 6 before a user at the command-line interface types in 7 "timers bgp" as a command, before that, the user has 7 command, correct? 8 A. Yes. 8 to type in a routing protocol command? 9 Q. And the date of earliest known document A. Right. For example, "router bgp," 10 for that command is September 14th, 1989. 10 "timers" plus the number, and then you would say, 11 Do you see that? 11 you know, "bgp timers" or timers bgp." 12 A. Uh-huh. 12 O. Got it. 13 Q. Is that -- strike that. 13 And BGP refers to border gateway protocol, 14 Did you work on different "timers" 14 correct? A. Yes. 15 commands at the -- roughly the same time period for 15 16 Cisco IOS? 16 Q. And we discussed border gateway protocol 17 MR. NEUKOM: Objection. Vague and 17 during your first deposition. Remember that? 18 compound. 18 A. That correct. 19 BY MR. WONG: 19 Q. And as the 1989, BGP was already in IETF 20 Q. Let me ask specifically, actually, about 20 industry standards, correct? 21 these. 21 A. No. 22 Did you work on the "timers basic" command 22 Q. At what stage was -- strike that. 23 and the "timers bgp" command at the same time? 23 Today BGP is specified in IETF industry 24 A. I don't know if it was the same time, but 24 standards, correct? 25 it was certainly in the late '80s. 25 A. It is described in an RFC that is a Page 345 Page 343 Q. Were there already commands in Cisco IOS 1 standard -- what the IETF calls a standard, yes. 2 at the time you added the "timers bgp" command where Q. So as of the time that the timers BGP 3 the first token was the word "timers"? 3 proto- -- strike that. A. Yes. At the time that the timers BGP command Q. What existing commands were present in 5 was added to Cisco IOS, at what stage was the BGP 6 Cisco IOS that started with the first token of 6 standardization process in the IETF, to your "timers" when you added the "timers bgp" command? 7 knowledge. A. They were all -- they were all subcommands A. Yakov Rekhter and I came up with the very 9 of the "routing" protocol command. They were --9 first version of BGP in January of 1989, wrote an 10 that was the only -- the only domain that was -- the 10 RFC describing it. And there were other 11 "timers" command at that time was for routing --11 implementations that were starting to pop up after 12 adjusting timers for routing protocols. 12 we did the first couple of RFCs. I don't Q. And just so I can understand, when you say 13 remember -- Yakov Rekhter was the person who handled 14 they were all subcommands of the "routing-protocol" 14 the standards process within the IETF. 15 command, what is the "routing-protocol" command? 15 Q. Do you remember the RFC number of the A. These days, it would be the "router" 16 first BGP RFC? 17 command. And the "router" command -- it's a command 17 A. I believe it was 1105. 18 mode where you say "router," then the name on the 18 Q. I think you're right. 19 19 routing protocol, like "IGRP" or "RIP" or "BGP." The source code relating to the Cisco fork 20 And then you would -- on subsequent lines, you would 20 of the EE-CF software that was provided to counsel 21 give command expressions that would tweak stuff that 21 in this case, you testified earlier that it had 22 is specific to that particular protocol. 22 different -- it had copies of source code other than

25 question was you asked and what I answered?

24

Page 346

23 the Cisco fork. Do you remember that testimony?

A. Could you refresh me as to what the

Page 344

Q. So was the "timers bgp" command a

24 subcommand of the "routing-protocol" command?

25

A. Yes.

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 71 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

١,			
'	Mr. Lougheed.	1	MR. WONG: I think it's our understanding
2	Now, those two sentences that you read	2	that all witnesses can have 30 days or something.
3	3 from the Stanford Ethertip User Guide marked as	3	MR. NEUKOM: By stipulation.
4	Exhibit 36 and the Cisco Systems ASM/AGS User Manual	4	MR. WONG: Great.
5	marked as Exhibit 476 are exactly the same, correct?	5	THE VIDEOGRAPHER: This concludes today's
6	A. Yes. I wrote both sentences.	6	
7	Q. And so Cisco copied those two sentences	7	
8	from the Stanford guide marked as Exhibit 36 and put	8	-
	them into the Cisco guide marked as Exhibit 476,	9	
1	correct?	10	
11	MR. NEUKOM: Objection. Asked and	11	
1	answered a couple times now.	12	
13		13	
	particular sentences,	14	
15	•	15	
	blanket question and you didn't like his answer,	16	
	which I thought was a pretty darn good one. So you	17	
1	decided to just keep him in the room	18	
19	MR. WONG: Counsel.	19	
20		1	
	MR. NEUKOM: Look, you responded to my	20	
	objection. You wanted to engage me. So I'll	21	
	explain my objection. If you don't want me piping	22	
	up, that's fine. Just let me make objections for the record.	23	
25		24 25	
23	Now you're asking him the exact same Page 395	2.5	Page 397
	question after having had the fourth employee of	1	DECLARATION UNDER PENALTY OF PERJURY
	Cisco, Mr. Lougheed, who is now here at almost 5:00	2	
	reading aloud from documents. And you asked him the	3	I, KIRK LOUGHEED, the witness herein,
	same question again to see if you can get a	ŀ	declare under penalty of perjury that I have read the
	different answer. So go for it. This is starting	1	foregoing in its entirety; and that the testimony
	to feel increasingly not very respectful of this	6 (contained therein, as corrected by me, is a true and
	witness's time.	7 8	accurate transcription of my testimony elicited at said
8	BY MR. WONG:	8 (time and place.
9	Q. Do you want me to read the question again?	9	
	I'll read the question again		
10	I'll read the question again.	10	Executed this day of 2016, at
10 11	A. That would be fine.	10 11 _	Executed this day of 2016, at
			Executed this day of 2016, at (City) (State)
11 12 13	A. That would be fine. Q. Cisco copied those two sentences that you just read aloud into the record for its user manual	11 _	
11 12 13	A. That would be fine.Q. Cisco copied those two sentences that you	11 ₋ 12	
11 12 13 14	A. That would be fine. Q. Cisco copied those two sentences that you just read aloud into the record for its user manual	11 _ 12 13	
11 12 13 14	A. That would be fine. Q. Cisco copied those two sentences that you just read aloud into the record for its user manual marked as Exhibit 476 from the Stanford user manual	11 _ 12 13 14	
11 12 13 14 15	A. That would be fine. Q. Cisco copied those two sentences that you just read aloud into the record for its user manual marked as Exhibit 476 from the Stanford user manual marked as Exhibit 36, correct?	11 12 13 14 15	
11 12 13 14 15	A. That would be fine. Q. Cisco copied those two sentences that you just read aloud into the record for its user manual marked as Exhibit 476 from the Stanford user manual marked as Exhibit 36, correct? A. I wrote both manuals.	11 _ 12 13 14 15 16	
11 12 13 14 15 16 17	A. That would be fine. Q. Cisco copied those two sentences that you just read aloud into the record for its user manual marked as Exhibit 476 from the Stanford user manual marked as Exhibit 36, correct? A. I wrote both manuals. MR. WONG: I have no further questions.	11 _ 12	(City) (State)
11 12 13 14 15 16 17	A. That would be fine. Q. Cisco copied those two sentences that you just read aloud into the record for its user manual marked as Exhibit 476 from the Stanford user manual marked as Exhibit 36, correct? A. I wrote both manuals. MR. WONG: I have no further questions. THE VIDEOGRAPHER: This concludes today's	11 _ 12	(City) (State)
11 12 13 14 15 16 17 18	A. That would be fine. Q. Cisco copied those two sentences that you just read aloud into the record for its user manual marked as Exhibit 476 from the Stanford user manual marked as Exhibit 36, correct? A. I wrote both manuals. MR. WONG: I have no further questions. THE VIDEOGRAPHER: This concludes today's videotaped deposition of Mr. Kirk	11 _ 12	(City) (State)
11 12 13 14 15 16 17 18 19 20 21	A. That would be fine. Q. Cisco copied those two sentences that you just read aloud into the record for its user manual marked as Exhibit 476 from the Stanford user manual marked as Exhibit 36, correct? A. I wrote both manuals. MR. WONG: I have no further questions. THE VIDEOGRAPHER: This concludes today's videotaped deposition of Mr. Kirk MR. NEUKOM: Oh, I'm sorry to interrupt.	11 _ 12	(City) (State)
11 12 13 14 15 16 17 18 19 20 21	A. That would be fine. Q. Cisco copied those two sentences that you just read aloud into the record for its user manual marked as Exhibit 476 from the Stanford user manual marked as Exhibit 36, correct? A. I wrote both manuals. MR. WONG: I have no further questions. THE VIDEOGRAPHER: This concludes today's videotaped deposition of Mr. Kirk MR. NEUKOM: Oh, I'm sorry to interrupt. On behalf of Mr. Lougheed, he reserves the	11 _ 12	(City) (State)
11 12 13 14 15 16 17 18 19 20 21 22 23	A. That would be fine. Q. Cisco copied those two sentences that you just read aloud into the record for its user manual marked as Exhibit 476 from the Stanford user manual marked as Exhibit 36, correct? A. I wrote both manuals. MR. WONG: I have no further questions. THE VIDEOGRAPHER: This concludes today's videotaped deposition of Mr. Kirk MR. NEUKOM: Oh, I'm sorry to interrupt. On behalf of Mr. Lougheed, he reserves the right to review an errata of the transcript. I	11 - 12 13 14 15 16 17 18 19 20 21 22	(City) (State)
11 12 13 14 15 16 17 18 19 20 21 22 23 24	A. That would be fine. Q. Cisco copied those two sentences that you just read aloud into the record for its user manual marked as Exhibit 476 from the Stanford user manual marked as Exhibit 36, correct? A. I wrote both manuals. MR. WONG: I have no further questions. THE VIDEOGRAPHER: This concludes today's videotaped deposition of Mr. Kirk MR. NEUKOM: Oh, I'm sorry to interrupt. On behalf of Mr. Lougheed, he reserves the right to review an errata of the transcript. I don't know, Ryan, if we've been doing this by	11	(City) (State)

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 72 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 72 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

1	REPORTER'S CERTIFICATION	
2	I, Leslie Johnson, a Certified Shorthand	
3	Reporter of the State of California, do hereby certify:	
4	That the foregoing proceedings were taken	
5	before me at the time and place herein set forth; that	
б	any witnesses in the foregoing proceedings, prior to	
7	testifying, were administered an oath; that a record of	
	the proceedings was made by me using machine shorthand	
	which was thereafter transcribed under my direction;	
	that the foregoing transcript is a true record of the	
	testimony given.	
12	Further, that if the foregoing pertains to	
	the original transcript of a deposition in a Federal	
	Case, before completion of the proceedings, review	
	of the transcript [] was [] was not requested.	·
	I further certify I am neither financially interested in	
	the action nor a relative or employee of any attorney or any party to this action.	
19	IN WITNESS WHEREOF, I have this date	
	subscribed my name.	
	Dated: April 19, 2016	
22		
23	dedie Johnson	
24	LESLIE JOHNSON	
25	CSR No. 11451, RPR, CCRR	
	Page 399	
		,

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 73 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 73 of 122 CONFIDENTIAL

```
UNITED STATES DISTRICT COURT
 1
              FOR THE NORTHERN DISTRICT OF CALIFORNIA
 2
 3
 4
      CISCO SYSTEMS, INC.,
 5
                Plaintiff,
 6
                                   )Civil Action No.:
 7
           vs.
                                   )5:14-cv-05344-BLF(PSG)
 8
     ARISTA NETWORKS, INC.,
                Defendant.
 9
10
11
12
                            CONFIDENTIAL
13
              VIDEOTAPED DEPOSITION OF DEVADAS PATIL
14
                       Palo Alto, California
15
16
                     Sunday, February 21, 2016
                              Volume 1
17
18
19
20
     Reported by:
21
22
     RACHEL FERRIER, CSR No. 6948
     Job No. 2223126
23
24
25
     PAGES 1 - 234
                                                      Page 1
```

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 74 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 74 of 122 CONFIDENTIAL

·	CONTI	71-1	VIIIL
1	UNITED STATES DISTRICT COURT]	I INDEX
2	FOR THE NORTHERN DISTRICT OF CALIFORNIA	1 2	2
3		3	B WITNESS EXAMINATION
4		1	DEVADAS PATIL
5	CISCO SYSTEMS, INC ,)	5	5 VOLUME 1
6		1	5 BY MR. RYAN 8, 121
7		1 7	·
İ	ARISTA NETWORKS, INC ,)5:14-cv-05344-BLF(PSG)	8	
9		9	
10	, , , , , , , , , , , , , , , , , , ,	10	
11)	11	
12		12	
1		13	
13	MADE OT A DED DEDOCRETON OF DENIADAG DATE. MONDOE	14	
14	VIDEOTAPED DEPOSITION OF DEVADAS PATIL, VOLUME 1.	15	
	taken on behalf of the Defendant, at Wilson Sonsini		
	Goodrich & Rosati, 650 Page Mill Road, Palo Alto,	16	
1	California, beginning at 9:25 a m and ending at	17	
1	3:44 p m on Sunday, February 21, 2016, before	18	
1	RACHEL FERRIER, Certified Shorthand Reporter No 6948	19	
20		20	
21		21	
22		22	
23		23	
24		24	
25		25	
	Page 2		Page 4
1	APPEARANCES:	1	EXHIBITS
2		1	NUMBER DESCRIPTION PAGE
3	For Plaintiff:	3	Exhibit 310 Subpoena to Testify at a
4	KEKER & VAN NEST LLP	7	Deposition in a Civil
5	BY: RYAN WONG	5	Action to Devadas Patil 21
6	Attorney at Law	6	Exhibit 311 Letter dated 2/19/16 to
7	633 Battery Street	7	Devadas Patil from Sean Park 22
8	San Francisco, CA 94111	1	Exhibit 312 Resume for Devadas Patil 29
9	415.773.6682	9	Exhibit 313 Resume for Devadas Patil (Bates CSI-CLI-01611242 -
10	rwong@kvn.com	10	01611243) 49
11	THOUSE WILLOW		Exhibit 314 "Business Development Trends and
	For Defendant:	12	Analysis for the Data Networking
13	QUINN EMANUEL URQUHART & SULLIVAN, LLP	13	Market" by Devadas Patil 107
14	BY: MATTHEW D. CANNON	, ,	Exhibit 315 IEEE 802.1AB Standard for
		14 15	local and metropolitan area networks
15	Attorney at Law	16	(Bates ARISTANDCA00017907
16	50 California Street, 22nd Floor	10	- 18078) 117
17	San Francisco, CA 94111	17	Exhibit 316 Spreadsheet entitled
18	415.875.6412	18	"Corrected Information
19	matthewcannon@quinnemanuel.com	19	Regarding Cisco Command
20		20	Expression Associated with Devadas Patil" 121
21		21	
	Videographer:	22	Functional Specification
23	SOSEH KEVORKIAN	23	(Bates CSI-CLI-01507526
			- 01507544) 134
24		24	- 01307344)
24 25	Page 3	25	Page 5

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 75 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 75 of 122 CONFIDENTIAL

1 EXHIBITS	1 MR CANNON: Matthew Cannon from Quinn, Emanuel 09:26AM
2 NUMBER DESCRIPTION PAGE	2 on behalf of Plaintiff Cisco and the witness 09:26AM
3	
4 Exhibit 318 Parser-Police Manifest,	3 THE VIDEOGRAPHER: Thank you 09:26AM
5 Version 5	4 DEVADAS PATIL, 09:26AM
(Bates CSI-CLI-00358164) 165	5 having been administered an oath, was examined and 09:26AM
6 Exhibit 319 E-mail dated 10/10/07	6 testified as follows: 09:26AM
7 from Devadas Patil	7 EXAMINATION 09:26AM
8 (Bates CSI-CLI-00836482) 176	8 BY MR WONG: 09:26AM
9 Exhibit 320 E-mail chain dated 8/10/06	9 Q Good morning 09:26AM
10 from Devadas Patil (Bates CSI-CLI-00817320	10 A Morning 09:26AM
(Bates CSI-CLI-00817320 11 - 817321) 180	11 Q Please state your full name for the record 09:26AM
12 Exhibit 321 E-mail chain dated 8/21/06	12 A Devadas Patil 09:26AM
13 from Devadas Patil	13 Q And, Mr Patil, what is your home address? 09:26AM
14 (Bates CSI-CLI-0817660) 183	
15 Exhibit 322 Cisco IOS Carrier Ethernet	14 A 3137 Kittery Avenue in San Ramon, California 09:26AM
Command Reference	15 94583 09:26AM
16 (Bates CSI-CLI-00291752	16 Q And who is your current employer, Mr Patil? 09:26AM
17 - 292238) 191	17 A GE Digital 09:27AM
18 Exhibit 323 E-mail chain dated 1/5/06	18 Q Do you have a work e-mail address for GE Digital? 09:27AM
19 from Devadas Patil	19 A 1 do 09:27AM
20 (Bates CSI-CLI-00810826	20 Q Could you please state it for the record 09:27AM
- 810828) 208	21 A It is devadas patil@ge com 09:27AM
21 Exhibit 324 E-mail chain dated 2/1/06	22 Q Do you have any personal e-mail addresses that 09:27AM
22 from Devadas Patil	23 you use, Mr Patil? 09:27AM
23 (Bates CSI-CLI-00811125 24 - 811128) 212	24 A I do 09:27AM
24 - 811128) 212 25	
Page 6	25 Q Could you please state those for the record 09:27AM Page 8
1 480 0	1450
1 Palo Alto, California; Sunday, February 21, 2016	1 A Dpatil44@hotmail.com. 09:27AM
1 Palo Alto, California; Sunday, February 21, 2016 2 9:25 a m	1 A Dpatil44@hotmail.com. 09:27AM 2 Q Anything else? 09:27AM
· · ·	
2 9:25 a m 3	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM
2 9:25 a m 3 4 THE VIDEOGRAPHER: Good morning 09:25 AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM
2 9:25 a m 3 4 THE VIDEOGRAPHER: Good morning 09:25AM 5 THE WITNESS: Morning 09:25AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM
2 9:25 a in 3 4 THE VIDEOGRAPHER: Good morning 09:25AM 5 THE WITNESS: Morning 09:25AM 6 THE VIDEOGRAPHER: We are on the record at 09:25AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM
2 9:25 a in 3 4 THE VIDEOGRAPHER: Good morning 09:25AM 5 THE WITNESS: Morning 09:25AM 6 THE VIDEOGRAPHER: We are on the record at 09:25AM 7 9:25 a in on February 21st, 2016 09:25AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM
2 9:25 a m 3 4 THE VIDEOGRAPHER: Good morning 09:25AM 5 THE WITNESS: Morning 09:25AM 6 THE VIDEOGRAPHER: We are on the record at 09:25AM 7 9:25 a m on February 21st, 2016 09:25AM 8 This is the video-recorded deposition of Devadas 09:25AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM
2 9:25 a m 3 4 THE VIDEOGRAPHER: Good morning 09:25AM 5 THE WITNESS: Morning 09:25AM 6 THE VIDEOGRAPHER: We are on the record at 09:25AM 7 9:25 a m on February 21st, 2016 09:25AM 8 This is the video-recorded deposition of Devadas 09:25AM 9 Patil 09:25AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM
2 9:25 a m 3 4 THE VIDEOGRAPHER: Good morning 09:25AM 5 THE WITNESS: Morning 09:25AM 6 THE VIDEOGRAPHER: We are on the record at 09:25AM 7 9:25 a m on February 21st, 2016 09:25AM 8 This is the video-recorded deposition of Devadas 09:25AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM 10 A Yes. 09:27AM
2 9:25 a m 3 4 THE VIDEOGRAPHER: Good morning 09:25AM 5 THE WITNESS: Morning 09:25AM 6 THE VIDEOGRAPHER: We are on the record at 09:25AM 7 9:25 a m on February 21st, 2016 09:25AM 8 This is the video-recorded deposition of Devadas 09:25AM 9 Patil 09:25AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM
2 9:25 a m 3 4 THE VIDEOGRAPHER: Good morning 09:25AM 5 THE WITNESS: Morning 09:25AM 6 THE VIDEOGRAPHER: We are on the record at 09:25AM 7 9:25 a m on February 21st, 2016 09:25AM 8 This is the video-recorded deposition of Devadas 09:25AM 9 Patil 09:25AM 10 My name is Soseh Kevorkian, here with our Court 09:25AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM 10 A Yes. 09:27AM
2 9:25 a m 3 4 THE VIDEOGRAPHER: Good morning 09:25AM 5 THE WITNESS: Morning 09:25AM 6 THE VIDEOGRAPHER: We are on the record at 09:25AM 7 9:25 a m on February 21st, 2016 09:25AM 8 This is the video-recorded deposition of Devadas 09:25AM 9 Patil 09:25AM 10 My name is Soseh Kevorkian, here with our Court 09:25AM 11 Reporter, Rachel Ferrier We are here on behalf of 09:25AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM 10 A Yes. 09:27AM 11 Q And what was that e-mail address while you were 09:27AM
2 9:25 a m 3 4 THE VIDEOGRAPHER: Good morning 09:25AM 5 THE WITNESS: Morning 09:25AM 6 THE VIDEOGRAPHER: We are on the record at 09:25AM 7 9:25 a m on February 21st, 2016 09:25AM 8 This is the video-recorded deposition of Devadas 09:25AM 9 Patil 09:25AM 10 My name is Soseh Kevorkian, here with our Court 09:25AM 11 Reporter, Rachel Ferrier We are here on behalf of 09:25AM 12 Defendants at 650 Page Mill Road in Palo Alto 09:25AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM 10 A Yes. 09:27AM 11 Q And what was that e-mail address while you were 09:27AM 12 employed at Cisco? 09:27AM
2 9:25 a m 3 4 THE VIDEOGRAPHER: Good morning 09:25AM 5 THE WITNESS: Morning 09:25AM 6 THE VIDEOGRAPHER: We are on the record at 09:25AM 7 9:25 a m on February 21st, 2016 09:25AM 8 This is the video-recorded deposition of Devadas 09:25AM 9 Patil 09:25AM 10 My name is Soseh Kevorkian, here with our Court 09:25AM 11 Reporter, Rachel Ferrier We are here on behalf of 09:25AM 12 Defendants at 650 Page Mill Road in Palo Alto 09:25AM 13 The caption of this case is Cisco Systems, 09:25AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM 10 A Yes. 09:27AM 11 Q And what was that e-mail address while you were 09:27AM 12 employed at Cisco? 09:27AM 13 A If I recall from five years ago, it's 09:27AM
2 9:25 a m 3 4 THE VIDEOGRAPHER: Good morning 09:25AM 5 THE WITNESS: Morning 09:25AM 6 THE VIDEOGRAPHER: We are on the record at 09:25AM 7 9:25 a m on February 21st, 2016 09:25AM 8 This is the video-recorded deposition of Devadas 09:25AM 9 Patil 09:25AM 10 My name is Soseh Kevorkian, here with our Court 09:25AM 11 Reporter, Rachel Ferrier We are here on behalf of 09:25AM 12 Defendants at 650 Page Mill Road in Palo Alto 09:25AM 13 The caption of this case is Cisco Systems, 09:25AM 14 Incorporated, versus Arista Networks, Incorporated, Case 09:25AM 15 No 5:14-cv-05344- BLF(PSG) 09:25AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM 10 A Yes. 09:27AM 11 Q And what was that e-mail address while you were 09:27AM 12 employed at Cisco? 09:27AM 13 A If I recall from five years ago, it's 09:27AM 14 dpatil@cisco.com, I think. 09:27AM 15 Q Okay. Mr. Patil, are you being represented by 09:28AM
2 9:25 a m 3 4 THE VIDEOGRAPHER: Good morning 09:25AM 5 THE WITNESS: Morning 09:25AM 6 THE VIDEOGRAPHER: We are on the record at 09:25AM 7 9:25 a m on February 21st, 2016 09:25AM 8 This is the video-recorded deposition of Devadas 09:25AM 9 Patil 09:25AM 10 My name is Soseh Kevorkian, here with our Court 09:25AM 11 Reporter, Rachel Ferrier We are here on behalf of 09:25AM 12 Defendants at 650 Page Mill Road in Palo Alto 09:25AM 13 The caption of this case is Cisco Systems, 09:25AM 14 Incorporated, versus Arista Networks, Incorporated, Case 09:25AM 15 No 5:14-cv-05344- BLF(PSG) 09:25AM 16 Please note that andio and video recording will 09:25AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM 10 A Yes. 09:27AM 11 Q And what was that e-mail address while you were 09:27AM 12 employed at Cisco? 09:27AM 13 A If I recall from five years ago, it's 09:27AM 14 dpatil@cisco.com, I think. 09:27AM 15 Q Okay. Mr. Patil, are you being represented by 09:28AM 16 counsel at this deposition? 09:28AM
9:25 a m THE VIDEOGRAPHER: Good morning 09:25AM THE WITNESS: Morning 09:25AM THE VIDEOGRAPHER: We are on the record at 09:25AM THE VIDEOGRAPHER: We are on the record at 09:25AM This is the video-recorded deposition of Devadas 09:25AM This is the video-recorded deposition of Devadas 09:25AM My name is Soseh Kevorkian, here with our Court 09:25AM My name is Soseh Kevorkian, here on behalf of 09:25AM Defendants at 650 Page Mill Road in Palo Alto 09:25AM Defendants at 650 Page Mill Road in Palo Alto 09:25AM The caption of this case is Cisco Systems, 09:25AM Incorporated, versus Arista Networks, Incorporated, Case 09:25AM No 5:14-ev-05344- BLF(PSG) 09:25AM Please note that andio and video recording will 09:25AM take place unless all parties agree to go off the 09:26AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM 10 A Yes. 09:27AM 11 Q And what was that e-mail address while you were 09:27AM 12 employed at Cisco? 09:27AM 13 A If I recall from five years ago, it's 09:27AM 14 dpatil@cisco.com, I think. 09:27AM 15 Q Okay. Mr. Patil, are you being represented by 09:28AM 16 counsel at this deposition? 09:28AM 17 A Yes. 09:28AM
9:25 a m THE VIDEOGRAPHER: Good morning 09:25AM THE WITNESS: Morning 09:25AM THE VIDEOGRAPHER: We are on the record at 09:25AM THE VIDEOGRAPHER: We are on the record at 09:25AM This is the video-recorded deposition of Devadas 09:25AM Patil 09:25AM My name is Soseh Kevorkian, here with our Court 09:25AM Reporter, Rachel Ferrier We are here on behalf of 09:25AM Defendants at 650 Page Mill Road in Palo Alto 09:25AM Defendants at 650 Page Mill Road in Palo Alto 09:25AM The caption of this case is Cisco Systems, 09:25AM Incorporated, versus Arista Networks, Incorporated, Case 09:25AM No 5:14-cv-05344- BLF(PSG) 09:25AM Please note that andio and video recording will 09:25AM Please note that andio and video recording will 09:25AM take place unless all parties agree to go off the 09:26AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM 10 A Yes. 09:27AM 11 Q And what was that e-mail address while you were 09:27AM 12 employed at Cisco? 09:27AM 13 A If I recall from five years ago, it's 09:27AM 14 dpatil@cisco.com, I think. 09:27AM 15 Q Okay. Mr. Patil, are you being represented by 09:28AM 16 counsel at this deposition? 09:28AM 17 A Yes. 09:28AM 18 Q Okay. And who's representing you at this 09:28AM
9:25 a m THE VIDEOGRAPHER: Good morning 09:25AM THE WITNESS: Morning 09:25AM THE VIDEOGRAPHER: We are on the record at 09:25AM THE VIDEOGRAPHER: We are on the record at 09:25AM This is the video-recorded deposition of Devadas 09:25AM Patil 09:25AM My name is Soseh Kevorkian, here with our Court 09:25AM Reporter, Rachel Ferrier We are here on behalf of 09:25AM Defendants at 650 Page Mill Road in Palo Alto 09:25AM The caption of this case is Cisco Systems, 09:25AM Incorporated, versus Arista Networks, Incorporated, Case 09:25AM No 5:14-cv-05344- BLF(PSG) 09:25AM Please note that andio and video recording will 09:25AM Please note that andio and video recording will 09:25AM Record 09:26AM Microphones are sensitive They pick up 09:26AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM 10 A Yes. 09:27AM 11 Q And what was that e-mail address while you were 09:27AM 12 employed at Cisco? 09:27AM 13 A If I recall from five years ago, it's 09:27AM 14 dpatil@cisco.com, I think. 09:27AM 15 Q Okay. Mr. Patil, are you being represented by 09:28AM 16 counsel at this deposition? 09:28AM 17 A Yes. 09:28AM 18 Q Okay. And who's representing you at this 09:28AM 19 deposition? 09:28AM
2 9:25 a m 3 4 THE VIDEOGRAPHER: Good morning 09:25AM 5 THE WITNESS: Morning 09:25AM 6 THE VIDEOGRAPHER: We are on the record at 09:25AM 7 9:25 a m on February 21st, 2016 09:25AM 8 This is the video-recorded deposition of Devadas 09:25AM 9 Patil 09:25AM 10 My name is Soseh Kevorkian, here with our Court 09:25AM 11 Reporter, Rachel Ferrier We are here on behalf of 09:25AM 12 Defendants at 650 Page Mill Road in Palo Alto 09:25AM 13 The caption of this case is Cisco Systems, 09:25AM 14 Incorporated, versus Arista Networks, Incorporated, Case 09:25AM 15 No 5:14-cv-05344- BLF(PSG) 09:25AM 16 Please note that andio and video recording will 09:25AM 17 take place unless all parties agree to go off the 09:26AM 18 record 09:26AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM 10 A Yes. 09:27AM 11 Q And what was that e-mail address while you were 09:27AM 12 employed at Cisco? 09:27AM 13 A If I recall from five years ago, it's 09:27AM 14 dpatil@cisco.com, I think. 09:27AM 15 Q Okay. Mr. Patil, are you being represented by 09:28AM 16 counsel at this deposition? 09:28AM 17 A Yes. 09:28AM 18 Q Okay. And who's representing you at this 09:28AM 19 deposition? 09:28AM 20 A Matt Cannon. 09:28AM
9:25 a m THE VIDEOGRAPHER: Good morning 09:25AM THE WITNESS: Morning 09:25AM THE VIDEOGRAPHER: We are on the record at 09:25AM THE VIDEOGRAPHER: We are on the record at 09:25AM This is the video-recorded deposition of Devadas 09:25AM Patil 09:25AM My name is Soseh Kevorkian, here with our Court 09:25AM Reporter, Rachel Ferrier We are here on behalf of 09:25AM Defendants at 650 Page Mill Road in Palo Alto 09:25AM The caption of this case is Cisco Systems, 09:25AM Incorporated, versus Arista Networks, Incorporated, Case 09:25AM No 5:14-cv-05344- BLF(PSG) 09:25AM Please note that andio and video recording will 09:25AM Please note that andio and video recording will 09:25AM Record 09:26AM Microphones are sensitive They pick up 09:26AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM 10 A Yes. 09:27AM 11 Q And what was that e-mail address while you were 09:27AM 12 employed at Cisco? 09:27AM 13 A If I recall from five years ago, it's 09:27AM 14 dpatil@cisco.com, I think. 09:27AM 15 Q Okay. Mr. Patil, are you being represented by 09:28AM 16 counsel at this deposition? 09:28AM 17 A Yes. 09:28AM 18 Q Okay. And who's representing you at this 09:28AM 19 deposition? 09:28AM
9:25 a m THE VIDEOGRAPHER: Good morning 09:25AM THE WITNESS: Morning 09:25AM THE VIDEOGRAPHER: We are on the record at 09:25AM THE VIDEOGRAPHER: We are on the record at 09:25AM THE VIDEOGRAPHER: We are on the record at 09:25AM This is the video-recorded deposition of Devadas 09:25AM This is the video-recorded deposition of Devadas 09:25AM My name is Soseh Kevorkian, here with our Court 09:25AM Reporter, Rachel Ferrier We are here on behalf of 09:25AM Defendants at 650 Page Mill Road in Palo Alto 09:25AM The caption of this case is Cisco Systems, 09:25AM Incorporated, versus Arista Networks, Incorporated, Case 09:25AM Incorporated, versus Arista Networks, Incorporated, Case 09:25AM No 5:14-cv-05344- BLF(PSG) 09:25AM Please note that andio and video recording will 09:25AM take place unless all parties agree to go off the 09:26AM Microphones are sensitive They pick up 09:26AM Microphones are sensitive They pick up 09:26AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM 10 A Yes. 09:27AM 11 Q And what was that e-mail address while you were 09:27AM 12 employed at Cisco? 09:27AM 13 A If I recall from five years ago, it's 09:27AM 14 dpatil@cisco.com, I think. 09:27AM 15 Q Okay. Mr. Patil, are you being represented by 09:28AM 16 counsel at this deposition? 09:28AM 17 A Yes. 09:28AM 18 Q Okay. And who's representing you at this 09:28AM 19 deposition? 09:28AM 20 A Matt Cannon. 09:28AM
9:25 a m THE VIDEOGRAPHER: Good morning THE WITNESS: Morning THE WITNESS: Morning THE VIDEOGRAPHER: We are on the record at 09:25AM THE VIDEOGRAPHER: We are on the record at 09:25AM THIS is the video-recorded deposition of Devadas 09:25AM This is the video-recorded deposition of Devadas 09:25AM My name is Soseh Kevorkian, here with our Court 09:25AM My name is Soseh Kevorkian, here on behalf of 09:25AM Defendants at 650 Page Mill Road in Palo Alto 09:25AM Defendants at 650 Page Mill Road in Palo Alto 09:25AM The caption of this case is Cisco Systems, 09:25AM Incorporated, versus Arista Networks, Incorporated, Case 09:25AM No 5:14-cv-05344- BLF(PSG) 09:25AM Please note that andio and video recording will 09:25AM Please note that andio and video recording will 09:25AM Microphones are sensitive They pick up 09:26AM Microphones are sensitive They pick up 09:26AM whispers, private conversations, and all cellular 09:26AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM 10 A Yes. 09:27AM 11 Q And what was that e-mail address while you were 09:27AM 12 employed at Cisco? 09:27AM 13 A If I recall from five years ago, it's 09:27AM 14 dpatil@cisco.com, I think. 09:27AM 15 Q Okay. Mr. Patil, are you being represented by 09:28AM 16 counsel at this deposition? 09:28AM 17 A Yes. 09:28AM 18 Q Okay. And who's representing you at this 09:28AM 19 deposition? 09:28AM 20 A Matt Cannon. 09:28AM 20 A Matt Cannon. 09:28AM
2 9:25 a m 3 4 THE VIDEOGRAPHER: Good morning 09:25AM 5 THE WITNESS: Morning 09:25AM 6 THE VIDEOGRAPHER: We are on the record at 09:25AM 7 9:25 a m on February 21st, 2016 09:25AM 8 This is the video-recorded deposition of Devadas 09:25AM 9 Patil 09:25AM 10 My name is Soseh Kevorkian, here with our Court 09:25AM 11 Reporter, Rachel Ferrier We are here on behalf of 09:25AM 12 Defendants at 650 Page Mill Road in Palo Alto 09:25AM 13 The caption of this case is Cisco Systems, 09:25AM 14 Incorporated, versus Arista Networks, Incorporated, Case 09:25AM 15 No 5:14-cv-05344- BLF(PSG) 09:25AM 16 Please note that andio and video recording will 09:25AM 17 take place unless all parties agree to go off the 09:26AM 18 record 09:26AM 19 Microphones are sensitive They pick up 09:26AM 20 whispers, private conversations, and all cellular 09:26AM 21 interference 09:26AM 22 At this time, would counsel and all present 09:26AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM 10 A Yes. 09:27AM 11 Q And what was that e-mail address while you were 09:27AM 12 employed at Cisco? 09:27AM 13 A If I recall from five years ago, it's 09:27AM 14 dpatil@cisco.com, I think. 09:27AM 15 Q Okay. Mr. Patil, are you being represented by 09:28AM 16 counsel at this deposition? 09:28AM 17 A Yes. 09:28AM 18 Q Okay. And who's representing you at this 09:28AM 19 deposition? 09:28AM 20 A Matt Cannon. 09:28AM 21 Q Mr. Cannon 09:28AM 22 A Mr. Cannon 09:28AM
2 9:25 a m 3 4 THE VIDEOGRAPHER: Good morning 09:25AM 5 THE WITNESS: Morning 09:25AM 6 THE VIDEOGRAPHER: We are on the record at 09:25AM 7 9:25 a m on February 21st, 2016 09:25AM 8 This is the video-recorded deposition of Devadas 09:25AM 9 Patil 09:25AM 10 My name is Soseh Kevorkian, here with our Court 09:25AM 11 Reporter, Rachel Ferrier We are here on behalf of 09:25AM 12 Defendants at 650 Page Mill Road in Palo Alto 09:25AM 13 The caption of this case is Cisco Systems, 09:25AM 14 Incorporated, versus Arista Networks, Incorporated, Case 09:25AM 15 No 5:14-cv-05344- BLF(PSG) 09:25AM 16 Please note that andio and video recording will 09:25AM 17 take place unless all parties agree to go off the 09:26AM 18 record 09:26AM 19 Microphones are sensitive They pick up 09:26AM 20 whispers, private conversations, and all cellular 09:26AM 21 interference 09:26AM 22 At this time, would counsel and all present 09:26AM 23 please identify themselves for the record 09:26AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM 10 A Yes. 09:27AM 11 Q And what was that e-mail address while you were 09:27AM 12 employed at Cisco? 09:27AM 13 A If I recall from five years ago, it's 09:27AM 14 dpatil@cisco.com, I think. 09:27AM 15 Q Okay. Mr. Patil, are you being represented by 09:28AM 16 counsel at this deposition? 09:28AM 17 A Yes. 09:28AM 18 Q Okay. And who's representing you at this 09:28AM 19 deposition? 09:28AM 20 A Matt Cannon. 09:28AM 21 Q Mr. Cannon 09:28AM 22 A Mr. Cannon 09:28AM 23 Q to your left? 09:28AM 24 A Correct. 09:28AM
2 9:25 a m 3 4 THE VIDEOGRAPHER: Good morning 09:25AM 5 THE WITNESS: Morning 09:25AM 6 THE VIDEOGRAPHER: We are on the record at 09:25AM 7 9:25 a m on February 21st, 2016 09:25AM 8 This is the video-recorded deposition of Devadas 09:25AM 9 Patil 09:25AM 10 My name is Soseh Kevorkian, here with our Court 09:25AM 11 Reporter, Rachel Ferrier We are here on behalf of 09:25AM 12 Defendants at 650 Page Mill Road in Palo Alto 09:25AM 13 The caption of this case is Cisco Systems, 09:25AM 14 Incorporated, versus Arista Networks, Incorporated, Case 09:25AM 15 No 5:14-cv-05344- BLF(PSG) 09:25AM 16 Please note that andio and video recording will 09:25AM 17 take place unless all parties agree to go off the 09:26AM 18 record 09:26AM 19 Microphones are sensitive They pick up 09:26AM 20 whispers, private conversations, and all cellular 09:26AM 21 interference 09:26AM 22 At this time, would counsel and all present 09:26AM 23 please identify themselves for the record 09:26AM 24 MR WONG: Ryan Wong from Keker & Van Nest for 09:26AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM 6 You previously worked for Cisco; correct? 09:27AM 7 A That's correct. 09:27AM 8 Q Did you have an e-mail address when you were 09:27AM 9 employed at Cisco? 09:27AM 10 A Yes. 09:27AM 11 Q And what was that e-mail address while you were 09:27AM 12 employed at Cisco? 09:27AM 13 A If I recall from five years ago, it's 09:27AM 14 dpatil@cisco.com, I think. 09:27AM 15 Q Okay. Mr. Patil, are you being represented by 09:28AM 16 counsel at this deposition? 09:28AM 17 A Yes. 09:28AM 18 Q Okay. And who's representing you at this 09:28AM 19 deposition? 09:28AM 20 A Matt Cannon. 09:28AM 21 Q Mr. Cannon 09:28AM 22 A Mr. Cannon 09:28AM 23 Q to your left? 09:28AM 24 A Correct. 09:28AM

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 76 of 122 CONFIDENTIAL

1 BY MR. WONG: 11:09AM	1 exchange information with and exchange ideas with, and 11:12AM
2 Q Can you describe for me, just so I can 11:09AM	2 so as part of that, I worked with pro product 11:12AM
3 understand, at what what are the various stages, in 11:09AM	3 managers, and I did my own research to see who else is 11:12AM
4 your mind, are a part of the development of the LLDP 11:09AN	4 active actively working on this technology and what 11:12AM
5 features at Cisco? 11:09AM	5 platforms they are targeting, what markets they are 11:12AM
6 A Back then, we were following what is probably 11:09AM	6 going after, etc., and what ultimately, what our 11:13AM
7 known as waterfall model, and it was a classic waterfall 11:10AM	7 requirements for Phase I are 11:13AM
8 experience, in a sense, that there was market analysis, 11:10AM	8 Q You mentioned, as some of the vendors that you 11:13AM
9 slash, requirements gathering. Then there was 11:10AM	9 looked at, the HP ProCurve; is that right? 11:13AM
10 architecture, and then there was design, and then there 11:10AM	10 A That's right 11:13AM
11 was implementation, and then there was testing, in each 11:10AM	
12 of the phases that I mentioned earlier. 11:10AM	12 A Yes 11:13AM
13 Q So the first phase of the three phases you 11:10AM	13 Q What equipment of Nortel's did you look at as 11:13AM
14 mentioned earlier was the discovery aspect, as you 11:10AM	14 part of this market analysis stage for Phase 1? 11:13AM
15 called it, of implementing LLDP; correct? 11:10AM	15 A Hooked at their ability to I was sort of 11:13AM
16 A Yes. 11:10AM	16 thinking ahead in that I looked at their platforms that 11:13AM
17 Q So the first stage of implementing Phase I 11:10AM	17 support the endpoints, such as desk desk phones, and 11:14AM
18 strike that. 11:10AM	18 see how see what Nortel does to discover desk phones 11:14AM
19 So when I say "Phase 1 of the LLDP project," do 11:10AM	19 and service them 11:14AM
20 you understand that I'm referring to the discovery 11:11AM	20 I looked at so that and later on, of 11:14AM
21 aspect of that project? 11:11AM	21 course, in Phase 3, I was looking at exactly what Nortel 11:14AM
22 A Ido. 11:11AM	
23 Q Now, for Phase 1 of the LLDP project, did the 11:11AM	22 is doing to support locations 11:14AM
	23 Q So let's just stick with what you did for 11:14AM
24 list of stages you just described apply to that phase? 11:11AM 25 A Yes. 11:11AM	24 Phase 1 11:14AM 25 A Yes Yes 11:14AM
Page 70	25 A Yes Yes 11:14AM Page 72
1 Q So the market analysis and requirements phase 11:11AM	1 Q Did you do anything else with respect to Nortel 11:14AM
2 is strike that 11:11AM	2 equipment with respect to the market analysis portion of 11:14AM
3 So the market analysis and requirement stage is 11:11AM	3 Phase 1? 11:14AM
4 the first stage in the multistage process for Phase 1 of 11:11AM	4 A I read I might have read some white papers to 11:14AM
5 the LLDP project? 11:11AM	5 see, you know, how how endpoint-to-infrastructure 11:14AM
6 A That's correct 11:11AM	6 discovery happens in a in a typical Nortel 11:14AM
7 Q Is there anything that precedes the market 11:11AM	7 deployment, but that's ahout all for Phase ! 11:14AM
8 analysis portion strike that 11:11AM	8 Q And why were you looking at that aspect of 11:14AM
9 Is there anything that precedes the market 11:11AM	9 Nortel's business in connection with Phase 1 of the LLDP 11:15AM
10 analysis stage as part of this multistage process you 11:11AM	10 project 11:15AM
11 described? 11:11AM	11 A Primarily to understand the market landscape, to 11:15AM
12 A No 11:11AM	12 see who who is who is doing this and how they are 11:15AM
13 Q So the first thing you did when you were working 11:11AM	13 doing it now and what what they have planned for this 11:15AM
14 on Phase 1 of the LLDP project was to perform a market 11:11AM	14 new technology coming in in the form of LLDP and how we 11:15AM
15 analysis to see what other vendors were doing; is that 11:11AM	15 are going at it, just an understanding of that 11:15AM
16 correct? 11:11AM	16 Q And you did a similar analysis for the HP 11:15AM
17 MR CANNON: Objection; vague, mischaracterizes 11:11AM	17 ProCurve; is that correct? 11:15AM
18 the witness's prior testimony 11:12 AM	18 A No 11:15AM
19 THE WITNESS: No No It it that's not 11:12AM	19 Q What did you do for the HP ProCurve actually, 11:15AM
20 accurate 11:12AM	20 strike Let me re-ask let me rephrase the question 11:15AM
21 BY MR WONG: 11:12AM	
	21 What did you look at as part of the market 11:15AM
22 Q What is inaccurate about what I just asked you? 11:12AM	21 What did you look at as part of the market 11:15AM 22 analysis stage of Phase 1 when you were looking at the 11:15AM
 Q What is inaccurate about what I just asked you? 11:12AM A I didn't do it as a requirement I did it as 11:12AM 	· ·
	22 analysis stage of Phase I when you were looking at the 11:15AM
23 A I didn't do it as a requirement I did it as 11:12AM 24 aside effect in the sense that this whole protocol was 11:12AM 25 very was brand new and I needed someone to to 11:12AM	22 analysis stage of Phase 1 when you were looking at the 11:15AM 23 HP ProCurve? 11:15AM
23 A I didn't do it as a requirement I did it as 11:12AM 24 aside effect in the sense that this whole protocol was 11:12AM	22 analysis stage of Phase 1 when you were looking at the 11:15AM 23 HP ProCurve? 11:15AM 24 A My interaction with the HP ProCurve was, of 11:16AM

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 77 of 122 CONFIDENTIAL

1 sets they have on that particular product, and I recall 11:16AM	1 Q And this is specific to Phase 1 of the LLDP 11:19AM
2 that my interaction with HP ProCurve was more technical 11:16AM	2 project? 11:19AM
3 in the sense that I actively exchanged LLDP concept 11:16AM	3 MR. CANNON: Same objection. 11:19AM
4 concepts with people representing HP ProCurve in in 11:16AM	4 THE WITNESS: Yes. I recall discussing how 11:19AM
5 the standards in in the in the IETF standards 11:16AM	5 sub-interfaces are handled. I recall that for sure. I 11:19AM
6 Q What LLDP concepts did you discuss with your 11:16AM	6 also recall several other discussions about some of the 11:19AM
7 contact at HP during the market analysis stage of 11:16AM	7 fields in the TLV data that we send in LLDP. 11:20AM
8 Phase 1? 11:16AM	8 BY MR. WONG: 11:20AM
9 A During the market analysis, not not nothing 11:16AM	9 Q What is TLV? 11:20AM
10 significant with HP ProCurve, I would say 11:16AM	10 A It's an acronym for type, length, and value. 11:20AM
11 Q How about just during any stages of Phase 1; what 11:17AM	11 Q Did you come up with that acronym? 11:20AM
12 type of LLDP concepts did you discuss with your 11:17AM	12 A No. 11:20AM
13 colleagues at HP ProCurve? 11:17AM	13 Q Do you know who came up with that acronym? 11:20AM
14 A I recall having discussed some of the topics in 11:17AM	14 A It is widely used in the standard. 11:20AM
15 the standard that were not immediately clear, and I 11:17AM	15 Q When you say "widely used in the standard," are 11:20AM
16 discussed the language in there to be certain that it 11:17AM	16 you referring to the LLDP standard? 11:20AM
17 means a means a certain entity in our implementation 11:17AM	17 A That's correct. 11:20AM
18 and how it maps to in their implementation, etc 11:17AM	18 Q Did you also speak with strike that. 11:20AM
19 Q Were these conver strike that 11:17AM	What type of market analysis did you do with 11:20AM
20 Were these communications by phone? 11:17AM	20 respect to Ericsson in Phase 1 of the LLDP project? 11:20AM
21 A Mainly through e-mail 11:17AM	21 A Not much. I must have I was I was under 11:20AM
22 Q And were you using your Cisco e-mail account for 11:17AM	22 time pressure to finish Phase 1 on in in a timely 11:21AM
23 those communications? 11:17AM	23 manner, and, basically, I was looking at other people 11:2IAM
24 A Yes 11:17AM	24 actively involved in in actual development of this 11:21AM
25 Q You don't have any copies of those e-mail 11:18AM Page 74	25 product. And as a side effect of that, I was reading 11:21AM Page 76
1 communications that you might have had with HP ProCurve, 11:18AM	I white papers as fast as I could to see what other 11:21AM
	1 White papers as fast as I could to see what outer 11.21AM
2 do you? 11:18AM	2 network vendors are involved in this area; discovery 11:21AM
	<u> </u>
2 do you? 11:18AM	2 network vendors are involved in this area; discovery 11:21AM
2 do you? 11:18AM 3 A No No 11:18AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc., in general, and I must 11:21AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc., in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? 11:18AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc, in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? 11:18AM 6 A The LLDP standard 11:18AM 7 Q Is the IETF the standard-setting body for LLDP? 11:18AM 8 A I've not been in touch with LLDP for a few years 11:18AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc., in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM 6 who was working on LLDP? 11:21AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? 11:18AM 6 A The LLDP standard 11:18AM 7 Q Is the IETF the standard-setting body for LLDP? 11:18AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc., in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM 6 who was working on LLDP? 11:21AM 7 A No 11:21AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? [1:18AM 6 A The LLDP standard 11:18AM 7 Q Is the IETF the standard-setting body for LLDP? 11:18AM 8 A I've not been in touch with LLDP for a few years 11:18AM 9 now, but my recollection is LLDP originated I don't 11:18AM 10 know whether it's LLDP or LLDP-MED outside of IETF 11:18AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc., in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM 6 who was working on LLDP? 11:21AM 7 A No 11:21AM 8 Q What about Juniper; what was your strike that 11:21AM 9 What type of market analysis did you do for 11:21AM 10 Phase 1 of the LLDP project with respect to Juniper? 11:21AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? 11:18AM 6 A The LLDP standard 11:18AM 7 Q Is the IETF the standard-setting body for LLDP? 11:18AM 8 A I've not been in touch with LLDP for a few years 11:18AM 9 now, but my recollection is LLDP originated I don't 11:18AM 10 know whether it's LLDP or LLDP-MED outside of IETF 11:18AM 11 first, and then two organizations have to have to 11:18AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc., in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM 6 who was working on LLDP? 11:21AM 7 A No 11:21AM 8 Q What about Juniper; what was your strike that 11:21AM 9 What type of market analysis did you do for 11:21AM 10 Phase 1 of the LLDP project with respect to Juniper? 11:21AM 11 A None 11:21AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? 11:18AM 6 A The LLDP standard 11:18AM 7 Q Is the IETF the standard-setting body for LLDP? 11:18AM 8 A I've not been in touch with LLDP for a few years 11:18AM 9 now, but my recollection is LLDP originated I don't 11:18AM 10 know whether it's LLDP or LLDP-MED outside of IETF 11:18AM 11 first, and then two organizations have to have to 11:18AM 12 come together to actually ratify the standard, but 1 11:18AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc., in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM 6 who was working on LLDP? 11:21AM 7 A No 11:21AM 8 Q What about Juniper; what was your strike that 11:21AM 9 What type of market analysis did you do for 11:21AM 10 Phase I of the LLDP project with respect to Juniper? 11:21AM 11 A None 11:21AM 12 Q Okay Aside from HP ProCurve, Nortel, and 11:21AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? 11:18AM 6 A The LLDP standard 11:18AM 7 Q Is the IETF the standard-setting body for LLDP? 11:18AM 8 A I've not been in touch with LLDP for a few years 11:18AM 9 now, but my recollection is LLDP originated I don't 11:18AM 10 know whether it's LLDP or LLDP-MED outside of IETF 11:18AM 11 first, and then two organizations have to have to 11:18AM 12 come together to actually ratify the standard, but 1 13 know that IETF had a big IEEE and IETF had a 11:18AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc, in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM 6 who was working on LLDP? 11:21AM 7 A No 11:21AM 8 Q What about Juniper; what was your strike that 11:21AM 9 What type of market analysis did you do for 11:21AM 10 Phase 1 of the LLDP project with respect to Juniper? 11:21AM 11 A None 11:21AM 12 Q Okay Aside from HP ProCurve, Nortel, and 11:21AM 13 Ericsson, were there any other third-party vendors that 11:22AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? 11:18AM 6 A The LLDP standard 11:18AM 7 Q Is the IETF the standard-setting body for LLDP? 11:18AM 8 A I've not been in touch with LLDP for a few years 11:18AM 9 now, but my recollection is LLDP originated I don't 11:18AM 10 know whether it's LLDP or LLDP-MED outside of IETF 11:18AM 11 first, and then two organizations have to have to 11:18AM 12 come together to actually ratify the standard, but 1 11:18AM 13 know that IETF had a big IEEE IEEE and IETF had a 11:18AM 14 big role in it 11:19AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc, in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM 6 who was working on LLDP? 11:21AM 7 A No 11:21AM 8 Q What about Juniper; what was your strike that 11:21AM 9 What type of market analysis did you do for 11:21AM 10 Phase 1 of the LLDP project with respect to Juniper? 11:21AM 11 A None 11:21AM 12 Q Okay Aside from HP ProCurve, Nortel, and 11:21AM 13 Ericsson, were there any other third-party vendors that 11:22AM 14 you investigated as part of the market analysis stage of 11:22AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? 6 A The LLDP standard 7 Q Is the IETF the standard-setting body for LLDP? 11:18AM 8 A I've not been in touch with LLDP for a few years 11:18AM 9 now, but my recollection is LLDP originated I don't 11:18AM 10 know whether it's LLDP or LLDP-MED outside of IETF 11:18AM 11 first, and then two organizations have to have to 11:18AM 12 come together to actually ratify the standard, but 1 13:18AM 14 big role in it 11:19AM 15 Q Did you discuss any implementation-related issues 11:19AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc., in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM 6 who was working on LLDP? 11:21AM 7 A No 11:21AM 8 Q What about Juniper; what was your strike that 11:21AM 9 What type of market analysis did you do for 11:21AM 10 Phase 1 of the LLDP project with respect to Juniper? 11:21AM 11 A None 11:21AM 12 Q Okay Aside from HP ProCurve, Nortel, and 11:21AM 13 Ericsson, were there any other third-party vendors that 11:22AM 14 you investigated as part of the market analysis stage of 11:22AM 15 Phase I of the LLDP project? 11:22AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? 11:18AM 6 A The LLDP standard 11:18AM 7 Q Is the IETF the standard-setting body for LLDP? 11:18AM 8 A I've not been in touch with LLDP for a few years 11:18AM 9 now, but my recollection is LLDP originated I don't 11:18AM 10 know whether it's LLDP or LLDP-MED outside of IETF 11:18AM 11 first, and then two organizations have to have to 11:18AM 12 come together to actually ratify the standard, but 1 13 know that IETF had a big IEEE IEEE and IETF had a 11:18AM 14 big role in it 11:19AM 15 Q Did you discuss any implementation-related issues 11:19AM 16 with the colleagues at HP ProCurve with respect to 11:19AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc., in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM 6 who was working on LLDP? 11:21AM 7 A No 11:21AM 8 Q What about Juniper; what was your strike that 11:21AM 9 What type of market analysis did you do for 11:21AM 10 Phase I of the LLDP project with respect to Juniper? 11:21AM 11 A None 11:21AM 12 Q Okay Aside from HP ProCurve, Nortel, and 11:21AM 13 Ericsson, were there any other third-party vendors that 11:22AM 14 you investigated as part of the market analysis stage of 11:22AM 15 Phase I of the LLDP project? 11:22AM 16 A Yes 11:22AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? 11:18AM 6 A The LLDP standard 11:18AM 7 Q Is the IETF the standard-setting body for LLDP? 11:18AM 8 A I've not been in touch with LLDP for a few years 11:18AM 9 now, but my recollection is LLDP originated I don't 11:18AM 10 know whether it's LLDP or LLDP-MED outside of IETF 11:18AM 11 first, and then two organizations have to have to 11:18AM 12 come together to actually ratify the standard, but 1 13:18AM 14 big role in it 11:19AM 15 Q Did you discuss any implementation-related issues 11:19AM 16 with the colleagues at HP ProCurve with respect to 11:19AM 17 Phase 1 of the LLDP project? 11:19AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc, in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM 6 who was working on LLDP? 11:21AM 7 A No 11:21AM 8 Q What about Juniper; what was your strike that 11:21AM 9 What type of market analysis did you do for 11:21AM 10 Phase 1 of the LLDP project with respect to Juniper? 11:21AM 11 A None 11:21AM 12 Q Okay Aside from HP ProCurve, Nortel, and 11:21AM 13 Ericsson, were there any other third-party vendors that 11:22AM 14 you investigated as part of the market analysis stage of 11:22AM 15 Phase 1 of the LLDP project? 11:22AM 16 A Yes 11:22AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? 11:18AM 6 A The LLDP standard 7 Q Is the IETF the standard-setting body for LLDP? 11:18AM 8 A I've not been in touch with LLDP for a few years 11:18AM 9 now, but my recollection is LLDP originated I don't 11:18AM 10 know whether it's LLDP or LLDP-MED outside of IETF 11:18AM 11 first, and then two organizations have to have to 11:18AM 12 come together to actually ratify the standard, but 1 11:18AM 13 know that IETF had a big IEEE IEEE and IETF had a 11:18AM 14 big role in it 11:19AM 15 Q Did you discuss any implementation-related issues 11:19AM 16 with the colleagues at HP ProCurve with respect to 11:19AM 17 Phase 1 of the LLDP project? 11:19AM 18 MR CANNON: Objection; vague, asked and 11:19AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc, in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM 6 who was working on LLDP? 11:21AM 7 A No 11:21AM 8 Q What about Juniper; what was your strike that 11:21AM 9 What type of market analysis did you do for 11:21AM 10 Phase 1 of the LLDP project with respect to Juniper? 11:21AM 11 A None 11:21AM 12 Q Okay Aside from HP ProCurve, Nortel, and 11:21AM 13 Ericsson, were there any other third-party vendors that 11:22AM 14 you investigated as part of the market analysis stage of 11:22AM 15 Phase I of the LLDP project? 11:22AM 16 A Yes 11:22AM 17 Q What are those other vendors? 11:22AM 18 A Mitel, Avaya, Polycom 11:22AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? 11:18AM 6 A The LLDP standard 7 Q Is the IETF the standard-setting body for LLDP? 11:18AM 8 A I've not been in touch with LLDP for a few years 11:18AM 9 now, but my recollection is LLDP originated I don't 11:18AM 10 know whether it's LLDP or LLDP-MED outside of IETF 11:18AM 11 first, and then two organizations have to have to 11:18AM 12 come together to actually ratify the standard, but 1 11:18AM 13 know that IETF had a big IEEE IEEE and IETF had a 11:18AM 14 big role in it 11:19AM 15 Q Did you discuss any implementation-related issues 11:19AM 16 with the colleagues at HP ProCurve with respect to 11:19AM 17 Phase 1 of the LLDP project? 11:19AM 18 MR CANNON: Objection; vague, asked and 11:19AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc, in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM 6 who was working on LLDP? 11:21AM 7 A No 11:21AM 8 Q What about Juniper; what was your strike that 11:21AM 9 What type of market analysis did you do for 11:21AM 10 Phase 1 of the LLDP project with respect to Juniper? 11:21AM 11 A None 11:21AM 12 Q Okay Aside from HP ProCurve, Nortel, and 11:21AM 13 Ericsson, were there any other third-party vendors that 11:22AM 14 you investigated as part of the market analysis stage of 11:22AM 15 Phase I of the LLDP project? 11:22AM 16 A Yes 11:22AM 17 Q What are those other vendors? 11:22AM 18 A Mitel, Avaya, Polycom 11:22AM 19 Q Any other vendors? 11:22AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? 11:18AM 6 A The LLDP standard 11:18AM 7 Q Is the IETF the standard-setting body for LLDP? 11:18AM 8 A I've not been in touch with LLDP for a few years 11:18AM 9 now, but my recollection is LLDP originated I don't 11:18AM 10 know whether it's LLDP or LLDP-MED outside of IETF 11:18AM 11 first, and then two organizations have to have to 11:18AM 12 come together to actually ratify the standard, but 1 11:18AM 13 know that IETF had a big IEEE IEEE and IETF had a 11:18AM 14 big role in it 11:19AM 15 Q Did you discuss any implementation-related issues 11:19AM 16 with the colleagues at HP ProCurve with respect to 11:19AM 17 Phase 1 of the LLDP project? 11:19AM 18 MR CANNON: Objection; vague, asked and 11:19AM 19 answered 11:19AM THE WITNESS: Yes 11:19AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc, in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM 6 who was working on LLDP? 11:21AM 7 A No 11:21AM 8 Q What about Juniper; what was your strike that 11:21AM 9 What type of market analysis did you do for 11:21AM 10 Phase I of the LLDP project with respect to Juniper? 11:21AM 11 A None 11:21AM 12 Q Okay Aside from HP ProCurve, Nortel, and 11:21AM 13 Ericsson, were there any other third-party vendors that 11:22AM 14 you investigated as part of the market analysis stage of 11:22AM 15 Phase I of the LLDP project? 11:22AM 16 A Yes 11:22AM 17 Q What are those other vendors? 11:22AM 18 A Mitel, Avaya, Polycom 11:22AM 19 Q Any other vendors? 11:22AM 20 A Yes, but I can't recall their names at this time 11:22AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? 11:18AM 6 A The LLDP standard 11:18AM 7 Q Is the IETF the standard-setting body for LLDP? 11:18AM 8 A I've not been in touch with LLDP for a few years 11:18AM 9 now, but my recollection is LLDP originated I don't 11:18AM 10 know whether it's LLDP or LLDP-MED outside of IETF 11:18AM 11 first, and then two organizations have to have to 11:18AM 12 come together to actually ratify the standard, but 1 13 know that IETF had a big IEEE IEEE and IETF had a 14 big role in it 11:19AM 15 Q Did you discuss any implementation-related issues 11:19AM 16 with the colleagues at HP ProCurve with respect to 11:19AM 17 Phase 1 of the LLDP project? 11:19AM 18 MR CANNON: Objection; vague, asked and 11:19AM 20 THE WITNESS: Yes 11:19AM 11:19AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc., in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM 6 who was working on LLDP? 11:21AM 7 A No 11:21AM 8 Q What about Juniper; what was your strike that 11:21AM 9 What type of market analysis did you do for 11:21AM 10 Phase I of the LLDP project with respect to Juniper? 11:21AM 11 A None 11:21AM 12 Q Okay Aside from HP ProCurve, Nortel, and 11:21AM 13 Ericsson, were there any other third-party vendors that 11:22AM 14 you investigated as part of the market analysis stage of 11:22AM 15 Phase I of the LLDP project? 11:22AM 16 A Yes 11:22AM 17 Q What are those other vendors? 11:22AM 18 A Mitel, Avaya, Polycom 11:22AM 19 Q Any other vendors? 11:22AM 20 A Yes, but I can't recall their names at this time 11:22AM 21 Q You mentioned that you actively communicated with 11:22AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? 11:18AM 6 A The LLDP standard 11:18AM 7 Q Is the IETF the standard-setting body for LLDP? 11:18AM 8 A I've not been in touch with LLDP for a few years 11:18AM 9 now, but my recollection is LLDP originated I don't 11:18AM 10 know whether it's LLDP or LLDP-MED outside of IETF 11:18AM 11 first, and then two organizations have to have to 11:18AM 12 come together to actually ratify the standard, but 1 11:18AM 13 know that IETF had a big IEEE IEEE and IETF had a 11:18AM 14 big role in it 11:19AM 15 Q Did you discuss any implementation-related issues 11:19AM 16 with the colleagues at HP ProCurve with respect to 11:19AM 17 Phase 1 of the LLDP project? 11:19AM 18 MR CANNON: Objection; vague, asked and 11:19AM 19 answered 11:19AM 20 THE WITNESS: Yes 11:19AM 21 BY MR WONG: 11:19AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc., in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM 6 who was working on LLDP? 11:21AM 7 A No 11:21AM 8 Q What about Juniper; what was your strike that 11:21AM 9 What type of market analysis did you do for 11:21AM 10 Phase I of the LLDP project with respect to Juniper? 11:21AM 11 A None 11:21AM 12 Q Okay Aside from HP ProCurve, Nortel, and 11:21AM 13 Ericsson, were there any other third-party vendors that 11:22AM 14 you investigated as part of the market analysis stage of 11:22AM 15 Phase I of the LLDP project? 11:22AM 16 A Yes 11:22AM 17 Q What are those other vendors? 11:22AM 18 A Mitel, Avaya, Polycom 11:22AM 19 Q Any other vendors? 11:22AM 20 A Yes, but I can't recall their names at this time 11:22AM 21 Q You mentioned that you actively communicated with 11:22AM 22 somebody from HP ProCurve; correct? 11:22AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? 11:18AM 6 A The LLDP standard 7 Q Is the IETF the standard-setting body for LLDP? I1:18AM 8 A I've not been in touch with LLDP for a few years I1:18AM 9 now, but my recollection is LLDP originated I don't 11:18AM 10 know whether it's LLDP or LLDP-MED outside of IETF 11:18AM 11 first, and then two organizations have to have to 11:18AM 12 come together to actually ratify the standard, but 1 11:18AM 13 know that IETF had a big IEEE IEEE and IETF had a 11:18AM 14 big role in it 11:19AM 15 Q Did you discuss any implementation-related issues 11:19AM 16 with the colleagues at HP ProCurve with respect to 11:19AM 17 Phase 1 of the LLDP project? 11:19AM 18 MR CANNON: Objection; vague, asked and 11:19AM 19 answered 11:19AM 20 THE WITNESS: Yes [1:19AM] 21 BY MR WONG: 11:19AM 22 Q What aspects of the actual implementation of LLDP 11:19AM 23 did you discuss with the HP ProCurve engineers? 11:19AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc, in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM 6 who was working on LLDP? 11:21AM 7 A No 11:21AM 8 Q What about Juniper; what was your strike that 11:21AM 9 What type of market analysis did you do for 11:21AM 10 Phase I of the LLDP project with respect to Juniper? 11:21AM 11 A None 11:21AM 12 Q Okay Aside from HP ProCurve, Nortel, and 11:21AM 13 Ericsson, were there any other third-party vendors that 11:22AM 14 you investigated as part of the market analysis stage of 11:22AM 15 Phase I of the LLDP project? 11:22AM 16 A Yes 11:22AM 17 Q What are those other vendors? 11:22AM 18 A Mitel, Avaya, Polycom 11:22AM 19 Q Any other vendors? 11:22AM 20 A Yes, but I can't recall their names at this time 11:22AM 21 Q You mentioned that you actively communicated with 11:22AM 22 somebody from HP ProCurve; correct? 11:22AM
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? 11:18AM 6 A The LLDP standard 11:18AM 7 Q Is the IETF the standard-setting body for LLDP? 11:18AM 8 A I've not been in touch with LLDP for a few years 11:18AM 9 now, but my recollection is LLDP originated I don't 11:18AM 10 know whether it's LLDP or LLDP-MED outside of IETF 11:18AM 11 first, and then two organizations have to have to 11:18AM 12 come together to actually ratify the standard, but 1 11:18AM 13 know that IETF had a big IEEE IEEE and IETF had a 11:18AM 14 big role in it 11:19AM 15 Q Did you discuss any implementation-related issues 11:19AM 16 with the colleagues at HP ProCurve with respect to 11:19AM 17 Phase 1 of the LLDP project? 11:19AM 18 MR CANNON: Objection; vague, asked and 11:19AM 20 THE WITNESS: Yes 11:19AM 21 BY MR WONG: 11:19AM 22 Q What aspects of the actual implementation of LLDP 11:19AM 23 did you discuss with the HP ProCurve engineers? 11:19AM 24 MR CANNON: Objection; vague 11:19AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc, in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM 6 who was working on LLDP? 11:21AM 7 A No 11:21AM 8 Q What about Juniper; what was your strike that 11:21AM 9 What type of market analysis did you do for 11:21AM 10 Phase I of the LLDP project with respect to Juniper? 11:21AM 11 A None 11:21AM 12 Q Okay Aside from HP ProCurve, Nortel, and 11:21AM 13 Ericsson, were there any other third-party vendors that 11:22AM 14 you investigated as part of the market analysis stage of 11:22AM 15 Phase I of the LLDP project? 11:22AM 16 A Yes 11:22AM 17 Q What are those other vendors? 11:22AM 18 A Mitel, Avaya, Polycom 11:22AM 19 Q Any other vendors? 11:22AM 20 A Yes, but I can't recall their names at this time 11:22AM 21 Q You mentioned that you actively communicated with 11:22AM 22 somebody from HP ProCurve; correct? 11:22AM 23 A Yes 11:22AM 24 Q Were there any other people that you actively [1:22AM]
2 do you? 11:18AM 3 A No No 11:18AM 4 Q You mentioned that you were discussing with HP 11:18AM 5 ProCurve topics relating to IETF standards? 11:18AM 6 A The LLDP standard 7 Q Is the IETF the standard-setting body for LLDP? I1:18AM 8 A I've not been in touch with LLDP for a few years I1:18AM 9 now, but my recollection is LLDP originated I don't 11:18AM 10 know whether it's LLDP or LLDP-MED outside of IETF 11:18AM 11 first, and then two organizations have to have to 11:18AM 12 come together to actually ratify the standard, but 1 11:18AM 13 know that IETF had a big IEEE IEEE and IETF had a 11:18AM 14 big role in it 11:19AM 15 Q Did you discuss any implementation-related issues 11:19AM 16 with the colleagues at HP ProCurve with respect to 11:19AM 17 Phase 1 of the LLDP project? 11:19AM 18 MR CANNON: Objection; vague, asked and 11:19AM 19 answered 11:19AM 20 THE WITNESS: Yes [1:19AM] 21 BY MR WONG: 11:19AM 22 Q What aspects of the actual implementation of LLDP 11:19AM 23 did you discuss with the HP ProCurve engineers? 11:19AM	2 network vendors are involved in this area; discovery 11:21AM 3 area, servicing, endpoint, etc, in general, and I must 11:21AM 4 have done some research on Ericsson as well 11:21AM 5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM 6 who was working on LLDP? 11:21AM 7 A No 11:21AM 8 Q What about Juniper; what was your strike that 11:21AM 9 What type of market analysis did you do for 11:21AM 10 Phase I of the LLDP project with respect to Juniper? 11:21AM 11 A None 11:21AM 12 Q Okay Aside from HP ProCurve, Nortel, and 11:21AM 13 Ericsson, were there any other third-party vendors that 11:22AM 14 you investigated as part of the market analysis stage of 11:22AM 15 Phase I of the LLDP project? 11:22AM 16 A Yes 11:22AM 17 Q What are those other vendors? 11:22AM 18 A Mitel, Avaya, Polycom 11:22AM 19 Q Any other vendors? 11:22AM 20 A Yes, but I can't recall their names at this time 11:22AM 21 Q You mentioned that you actively communicated with 11:22AM 22 somebody from HP ProCurve; correct? 11:22AM

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 78 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 78 of 122 CONFIDENTIAL

1 project at Cisco? 11:22AM	1 progression of development, and being able to abstract 11:26AM
2 MR. CANNON: Objection; vague. 11:22AM	2 the current implementation to allow for that is what I 11:26AM
3 THE WITNESS: Yes. 11:22AM	3 mean by "extensibility " 11:26AM
4 BY MR. WONG: 11:22AM	4 Q So when you were discussing the LLDP project 11:26AM
5 Q Who else were you working with when you were 11:22A	5 Phase I one of the LLDP project with your colleagues at 11:26AM
6 working on Phase 1 of the LLDP project at Cisco? 11:23AM	6 HP, did you talk about what you were planning to do for 11:26AM
7 A You mean external to Cisco? 11:23AM	7 Cisco's implementation? 11:26AM
8 Q External to Cisco, yes. 11:23AM	8 MR CANNON: Objection; vague 11:26AM
9 A I must have sent some e-mails clarifying some of 11:23AM	9 THE WITNESS: No 11:26AM
10 the language in the standard, and I don't recall the 11:23AM	10 BY MR WONG: 11:26AM
11 actual people that responded to me from the standards 11:23AM	11 Q Okay Did your colleague tell you what HP was 11:26AM
12 e-mail areas, but I would say a few e-mails with people 11:23AM	12 planning to do for HP's implementation? 11:26AM
13 other than HP ProCurve that were part of the standards 11:23AM	13 MR CANNON: Objection; vague 11:26AM
14 body, and, of course, HP ProCurve people were also in 11:23AM	14 THE WITNESS: No 11:26AM
15 the standards body. 11:23AM	15 BY MR WONG: 11:27AM
•	
16 Q And when you are referring to "the standards," 11:23AM	16 Q Which of those vendors that we just discussed 11:27AM
17 are you referring to the IEEE? 11:23AM	17 were also in the process of implementing LLDP in their 11:27AM
18 A Yes. 11:23AM	18 products? 11:27AM
19 Q Are you an IEEE member, Mr. Patil? 11:23AM	19 A I know for sure that HP ProCurve was I I 11:27AM
20 A I am, but I'm not very active. 11:23AM	20 think Nortel was too, but I was not 100 percent sure 11:27AM
21 Q How long have you been a member of the IEEE? 11:23AN	1
22 A I don't know whether my membership has actually 11:24AM	22 THE WITNESS: Okay 11:27AM
23 expired, but I started very early in the '90s. 11:24AM	23 THE VIDEOGRAPHER: We are going off the record at 11:27AM
24 Q And were you involved in the standard-setting 11:24AM	24 11:27 a m 11:27AM
25 process for LLDP? 11:24AM	25 (Recess taken) 11:27 AM
Page 78	Page 80
1 A No 11:24AM	1 THE VIDEOGRAPHER: We are back on the record at 11:33AM
1 A No 11:24AM 2 Q Why was it important for you to find other people 11:24AM	1 THE VIDEOGRAPHER: We are back on the record at 11:33AM 2 11:33 a m 11:33AM
2 Q Why was it important for you to find other people 11:24AM	
Q Why was it important for you to find other people 11:24AM to talk to while you were working on Phase 1 of the LLDP 11:24AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase 1 of the LLDP 11:24AM 4 project? 11:24AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase 1 of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase 1 of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase 1 of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-lunm 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase I of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-lnnm 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase 1 of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM 9 of this size 11:24AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-lnnm 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM 9 A Yes 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase 1 of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM 9 of this size 11:24AM 10 Q How does talking with other vendors outside of 11:24AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-lnnm 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM 9 A Yes 11:34AM 10 Q During what phase strike that 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase 1 of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM 9 of this size 11:24AM 10 Q How does talking with other vendors outside of 11:24AM 11 Cisco help you to make the right architectural and 11:24AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-hunm 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM 9 A Yes 11:34AM 10 Q During what phase strike that 11:34AM 11 During what stage of the stages that you 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase 1 of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM 9 of this size 11:24AM 10 Q How does talking with other vendors outside of 11:24AM 11 Cisco help you to make the right architectural and 11:24AM 12 design decisions with respect to Cisco's LLDP 11:25AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-hunm 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM 9 A Yes 11:34AM 10 Q During what phase strike that 11:34AM 11 During what stage of the stages that you 11:34AM 12 described are the syntaxes for the commands created? 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase I of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM 9 of this size 11:24AM 10 Q How does talking with other vendors outside of 11:24AM 11 Cisco help you to make the right architectural and 11:24AM 12 design decisions with respect to Cisco's LLDP 11:25AM 13 implementation? 11:25AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-lnum 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM 9 A Yes 11:34AM 10 Q During what phase strike that 11:34AM 11 During what stage of the stages that you 11:34AM 12 described are the syntaxes for the commands created? 11:34AM 13 MR CANNON: Objection; vague 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase 1 of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM 9 of this size 11:24AM 10 Q How does talking with other vendors outside of 11:24AM 11 Cisco help you to make the right architectural and 11:24AM 12 design decisions with respect to Cisco's LLDP 11:25AM 13 implementation? 11:25AM 14 A It gives us an understanding of how this can be I1:25AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-lmm 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM 9 A Yes 11:34AM 10 Q During what phase strike that 11:34AM 11 During what stage of the stages that you 11:34AM 12 described are the syntaxes for the commands created? 11:34AM 13 MR CANNON: Objection; vague 11:34AM 14 THE WITNESS: Both Phase 1 and Phase 2 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase 1 of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM 9 of this size 11:24AM 10 Q How does talking with other vendors outside of 11:24AM 11 Cisco help you to make the right architectural and 11:24AM 12 design decisions with respect to Cisco's LLDP 11:25AM 13 implementation? 11:25AM 14 A It gives us an understanding of how this can be 11:25AM 15 done in phases It helps us avoid costly architectural 11:25AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-hum 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM 9 A Yes 11:34AM 10 Q During what phase strike that 11:34AM 11 During what stage of the stages that you 11:34AM 12 described are the syntaxes for the commands created? 11:34AM 13 MR CANNON: Objection; vague 11:34AM 14 THE WITNESS: Both Phase 1 and Phase 2 11:34AM 15 BY MR WONG: 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase 1 of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM 9 of this size 11:24AM 10 Q How does talking with other vendors outside of 11:24AM 11 Cisco help you to make the right architectural and 11:24AM 12 design decisions with respect to Cisco's LLDP 11:25AM 13 implementation? 11:25AM 14 A It gives us an understanding of how this can be 11:25AM 15 done in phases It helps us avoid costly architectural 11:25AM 16 and design mistakes so that we abstract the initial 11:25AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-hunm 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM 9 A Yes 11:34AM 10 Q During what phase strike that 11:34AM 11 During what stage of the stages that you 11:34AM 12 described are the syntaxes for the commands created? 11:34AM 13 MR CANNON: Objection; vague 11:34AM 14 THE WITNESS: Both Phase 1 and Phase 2 11:34AM 15 BY MR WONG: 11:34AM 16 Q I'm sorry, my question was: During which of the 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase 1 of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM 9 of this size 11:24AM 10 Q How does talking with other vendors outside of 11:24AM 11 Cisco help you to make the right architectural and 11:24AM 12 design decisions with respect to Cisco's LLDP 11:25AM 13 implementation? 11:25AM 14 A It gives us an understanding of how this can be 11:25AM 15 done in phases It helps us avoid costly architectural 11:25AM 16 and design mistakes so that we abstract the initial 11:25AM 17 implementation for extensibility, and it also helps us 11:25AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-hunm 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM 9 A Yes 11:34AM 10 Q During what phase strike that 11:34AM 11 During what stage of the stages that you 11:34AM 12 described are the syntaxes for the commands created? 11:34AM 13 MR CANNON: Objection; vague 11:34AM 14 THE WITNESS: Both Phase 1 and Phase 2 11:34AM 15 BY MR WONG: 11:34AM 16 Q I'm sorry, my question was: During which of the 11:34AM 17 stages that you listed out for me are the syntaxes for 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase I of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM 9 of this size 11:24AM 10 Q How does talking with other vendors outside of 11:24AM 11 Cisco help you to make the right architectural and 11:24AM 12 design decisions with respect to Cisco's LLDP 11:25AM 13 implementation? 11:25AM 14 A It gives us an understanding of how this can be 11:25AM 15 done in phases It helps us avoid costly architectural 11:25AM 16 and design mistakes so that we abstract the initial 11:25AM 17 implementation for extensibility, and it also helps us 11:25AM 18 plan for things coming down the pipeline, such as 11:25AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-lnum 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM 9 A Yes 11:34AM 10 Q During what phase strike that 11:34AM 11 During what stage of the stages that you 11:34AM 12 described are the syntaxes for the commands created? 11:34AM 13 MR CANNON: Objection; vague 11:34AM 14 THE WITNESS: Both Phase 1 and Phase 2 11:34AM 15 BY MR WONG: 11:34AM 16 Q I'm sorry, my question was: During which of the 11:34AM 17 stages that you listed out for me are the syntaxes for 11:34AM 18 the commands, and specifically the LLDP commands, 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase 1 of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM 9 of this size 11:24AM 10 Q How does talking with other vendors outside of 11:24AM 11 Cisco help you to make the right architectural and 11:24AM 12 design decisions with respect to Cisco's LLDP 11:25AM 13 implementation? 11:25AM 14 A It gives us an understanding of how this can be 11:25AM 15 done in phases It helps us avoid costly architectural 11:25AM 16 and design mistakes so that we abstract the initial 11:25AM 17 implementation for extensibility, and it also helps us 11:25AM 18 plan for things coming down the pipeline, such as 11:25AM 19 Phase 2 or even Phase 3 when it comes to a map and 11:25AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-lmm 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM 9 A Yes 11:34AM 10 Q During what phase strike that 11:34AM 11 During what stage of the stages that you 11:34AM 12 described are the syntaxes for the commands created? 11:34AM 13 MR CANNON: Objection; vague 11:34AM 14 THE WITNESS: Both Phase 1 and Phase 2 11:34AM 15 BY MR WONG: 11:34AM 16 Q I'm sorry, my question was: During which of the 11:34AM 17 stages that you listed out for me are the syntaxes for 11:34AM 18 the commands, and specifically the LLDP commands, 11:34AM 19 created? 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase I of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM 9 of this size 11:24AM 10 Q How does talking with other vendors outside of 11:24AM 11 Cisco help you to make the right architectural and 11:24AM 12 design decisions with respect to Cisco's LLDP 11:25AM 13 implementation? 11:25AM 14 A It gives us an understanding of how this can be 11:25AM 15 done in phases It helps us avoid costly architectural 11:25AM 16 and design mistakes so that we abstract the initial 11:25AM 17 implementation for extensibility, and it also helps us 11:25AM 18 plan for things coming down the pipeline, such as 11:25AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-lmm 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM 10 Q During what phase strike that 11:34AM 11 During what stage of the stages that you 11:34AM 12 described are the syntaxes for the commands created? 11:34AM 13 MR CANNON: Objection; vague 11:34AM 14 THE WITNESS: Both Phase 1 and Phase 2 11:34AM 15 BY MR WONG: 11:34AM 16 Q I'm sorry, my question was: During which of the 11:34AM 17 stages that you listed out for me are the syntaxes for 11:34AM 18 the commands, and specifically the LLDP commands, 11:34AM 19 created? 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase 1 of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM 9 of this size 11:24AM 10 Q How does talking with other vendors outside of 11:24AM 11 Cisco help you to make the right architectural and 11:24AM 12 design decisions with respect to Cisco's LLDP 11:25AM 13 implementation? 11:25AM 14 A It gives us an understanding of how this can be 11:25AM 15 done in phases It helps us avoid costly architectural 11:25AM 16 and design mistakes so that we abstract the initial 11:25AM 17 implementation for extensibility, and it also helps us 11:25AM 18 plan for things coming down the pipeline, such as 11:25AM 19 Phase 2 or even Phase 3 when it comes to a map and 11:25AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-hunm 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM 10 Q During what phase strike that 11:34AM 11 During what stage of the stages that you 11:34AM 12 described are the syntaxes for the commands created? 11:34AM 13 MR CANNON: Objection; vague 11:34AM 14 THE WITNESS: Both Phase 1 and Phase 2 11:34AM 15 BY MR WONG: 11:34AM 16 Q I'm sorry, my question was: During which of the 11:34AM 17 stages that you listed out for me are the syntaxes for 11:34AM 18 the commands, and specifically the LLDP commands, 11:34AM 19 created? 11:34AM 20 MR CANNON: Objection; vague 11:34AM 21 THE WITNESS: In the design specification for the 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase 1 of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM 9 of this size 11:24AM 10 Q How does talking with other vendors outside of 11:24AM 11 Cisco help you to make the right architectural and 11:24AM 12 design decisions with respect to Cisco's LLDP 11:25AM 13 implementation? 11:25AM 14 A It gives us an understanding of how this can be I1:25AM 15 done in phases It helps us avoid costly architectural 11:25AM 16 and design mistakes so that we abstract the initial 11:25AM 17 implementation for extensibility, and it also helps us 11:25AM 18 plan for things coming down the pipeline, such as 11:25AM 19 Phase 2 or even Phase 3 when it comes to a map and 11:25AM 20 locations 11:25AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-lmm 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM 10 Q During what phase strike that 11:34AM 11 During what stage of the stages that you 11:34AM 12 described are the syntaxes for the commands created? 11:34AM 13 MR CANNON: Objection; vague 11:34AM 14 THE WITNESS: Both Phase 1 and Phase 2 11:34AM 15 BY MR WONG: 11:34AM 16 Q I'm sorry, my question was: During which of the 11:34AM 17 stages that you listed out for me are the syntaxes for 11:34AM 18 the commands, and specifically the LLDP commands, 11:34AM 19 created? 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase 1 of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM 9 of this size 11:24AM 10 Q How does talking with other vendors outside of 11:24AM 11 Cisco help you to make the right architectural and 11:24AM 12 design decisions with respect to Cisco's LLDP 11:25AM 13 implementation? 11:25AM 14 A It gives us an understanding of how this can be 11:25AM 15 done in phases It helps us avoid costly architectural 11:25AM 16 and design mistakes so that we abstract the initial 11:25AM 17 implementation for extensibility, and it also helps us 11:25AM 18 plan for things coming down the pipeline, such as 11:25AM 19 Phase 2 or even Phase 3 when it comes to a map and 11:25AM 20 locations 11:25AM 21 Q What do you mean by "extensibility"? 11:25AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-hunn 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM 9 A Yes 11:34AM 10 Q During what phase strike that 11:34AM 11 During what stage of the stages that you 11:34AM 12 described are the syntaxes for the commands created? 11:34AM 13 MR CANNON: Objection; vague 11:34AM 14 THE WITNESS: Both Phase 1 and Phase 2 11:34AM 15 BY MR WONG: 11:34AM 16 Q I'm sorry, my question was: During which of the 11:34AM 17 stages that you listed out for me are the syntaxes for 11:34AM 18 the commands, and specifically the LLDP commands, 11:34AM 19 created? 11:34AM 20 MR CANNON: Objection; vague 11:34AM 21 THE WITNESS: In the design specification for the 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase I of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM 9 of this size 11:24AM 10 Q How does talking with other vendors outside of 11:24AM 11 Cisco help you to make the right architectural and 11:24AM 12 design decisions with respect to Cisco's LLDP 11:25AM 13 implementation? 11:25AM 14 A It gives us an understanding of how this can be 11:25AM 15 done in phases It helps us avoid costly architectural 11:25AM 16 and design mistakes so that we abstract the initial 11:25AM 17 implementation for extensibility, and it also helps us 11:25AM 18 plan for things coming down the pipeline, such as 11:25AM 19 Phase 2 or even Phase 3 when it comes to a map and 11:25AM 20 locations 11:25AM 21 Q What do you mean by "extensibility"? 11:25AM 22 A The ability to support value-added features to 11:25AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-lmm 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM 9 A Yes 11:34AM 10 Q During what phase strike that 11:34AM 11 During what stage of the stages that you 11:34AM 12 described are the syntaxes for the commands created? 11:34AM 13 MR CANNON: Objection; vague 11:34AM 14 THE WITNESS: Both Phase 1 and Phase 2 11:34AM 15 BY MR WONG: 11:34AM 16 Q I'm sorry, my question was: During which of the 11:34AM 17 stages that you listed out for me are the syntaxes for 11:34AM 18 the commands, and specifically the LLDP commands, 11:34AM 19 created? 11:34AM 20 MR CANNON: Objection; vague 11:34AM 21 THE WITNESS: In the design specification for the 11:34AM 22 phase 11:34AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase I of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM 9 of this size 11:24AM 10 Q How does talking with other vendors outside of 11:24AM 11 Cisco help you to make the right architectural and 11:24AM 12 design decisions with respect to Cisco's LLDP 11:25AM 13 implementation? 11:25AM 14 A It gives us an understanding of how this can be 11:25AM 15 done in phases It helps us avoid costly architectural 11:25AM 16 and design mistakes so that we abstract the initial 11:25AM 17 implementation for extensibility, and it also helps us 11:25AM 18 plan for things coming down the pipeline, such as 11:25AM 19 Phase 2 or even Phase 3 when it comes to a map and 11:25AM 20 locations 11:25AM 21 Q What do you mean by "extensibility"? 11:25AM 22 A The ability to support value-added features to 11:25AM 23 target certain markets An example is something like 11:26AM 24 inline power provisioning on endpoints through LLDP 11:26AM 25 Knowing that it's coming in the roadmap, in the 11:26AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-lmm 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM 9 A Yes 11:34AM 10 Q During what phase strike that 11:34AM 11 During what stage of the stages that you 11:34AM 12 described are the syntaxes for the commands created? 11:34AM 13 MR CANNON: Objection; vague 11:34AM 14 THE WITNESS: Both Phase I and Phase 2 11:34AM 15 BY MR WONG: 11:34AM 16 Q I'm sorry, my question was: During which of the 11:34AM 17 stages that you listed out for me are the syntaxes for 11:34AM 18 the commands, and specifically the LLDP commands, 11:34AM 19 created? 11:34AM 20 MR CANNON: Objection; vague 11:34AM 21 THE WITNESS: In the design specification for the 11:34AM 22 phase 11:34AM 23 BY MR WONG: 11:34AM 24 Q And just so it's clear to me, the first stage 11:34AM 25 that you described was the market analysis and 11:35AM
2 Q Why was it important for you to find other people 11:24AM 3 to talk to while you were working on Phase 1 of the LLDP 11:24AM 4 project? 11:24AM 5 A To make the right architectural and design 11:24AM 6 decisions so that we don't have to tear down a lot of 11:24AM 7 stuff later, post-implementation, post-testing, and 11:24AM 8 that's the, I would say, cautious approach for a project 11:24AM 9 of this size 11:24AM 10 Q How does talking with other vendors outside of 11:24AM 11 Cisco help you to make the right architectural and 11:24AM 12 design decisions with respect to Cisco's LLDP 11:25AM 13 implementation? 11:25AM 14 A It gives us an understanding of how this can be 11:25AM 15 done in phases It helps us avoid costly architectural 11:25AM 16 and design mistakes so that we abstract the initial 11:25AM 17 implementation for extensibility, and it also helps us 11:25AM 18 plan for things coming down the pipeline, such as 11:25AM 19 Phase 2 or even Phase 3 when it comes to a map and 11:25AM 20 locations 11:25AM 21 Q What do you mean by "extensibility"? 11:25AM 22 A The ability to support value-added features to 11:25AM 23 target certain markets An example is something like 11:26AM 24 inline power provisioning on endpoints through LLDP 11:26AM	2 11:33 a m 11:33AM 3 BY MR WONG: 11:33AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM 5 the various stages that are involved in implementing the 11:33AM 6 LLDP project at Cisco 11:34AM 7 A Mm-hnm 11:34AM 8 Q We were talking specifically about Phase 1 11:34AM 9 A Yes 11:34AM 10 Q During what phase strike that 11:34AM 11 During what stage of the stages that you 11:34AM 12 described are the syntaxes for the commands created? 11:34AM 13 MR CANNON: Objection; vague 11:34AM 14 THE WITNESS: Both Phase 1 and Phase 2 11:34AM 15 BY MR WONG: 11:34AM 16 Q I'm sorry, my question was: During which of the 11:34AM 17 stages that you listed out for me are the syntaxes for 11:34AM 18 the commands, and specifically the LLDP commands, 11:34AM 19 created? 11:34AM 20 MR CANNON: Objection; vague 11:34AM 21 THE WITNESS: In the design specification for the 11:34AM 22 phase 11:34AM 23 BY MR WONG: 11:34AM 24 Q And just so it's clear to me, the first stage 11:34AM

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 79 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 79 of 122 CONFIDENTIAL

1 requirement stage; correct? 11:35AM	1 Routing Information Base that I talked about earlier 11:37AM
2 A Correct. 11:35AM	2 or mentioned 11:37AM
3 Q And the second stage that you described was an 11:35AM	3 Q How focusing specifically on Phase 1 of the 11:37AM
4 architectural stage; is that right? 11:35AM	4 LLDP project, how was that a key architectural decision? 11:37AM
5 A That's correct. 11:35AM	5 MR CANNON: Objection; vague 11:37AM
6 Q And the third stage is the design stage? 11:35AM	6 BY MR WONG: 11:37AM
7 A Yes. 11:35AM	7 Q I'm using your own words here in your resume, 11:37AM
8 Q So it's the third stage where the command syntax 11:35AM	8 Mr Patil 11:38AM
9 for the LLDP commands, talking specifically with respect 11:35At	9 How was that how was Phase 1 of the LLDP 11:38AM
10 to Phase 1, were created; correct? 11:35AM	10 project a key architectural decision for Cisco products? 11:38AM
11 A That's correct. 11:35AM	11 MR CANNON: Objection; vague, mischaracterizes 11:38AM
12 MR. CANNON: Objection; vague. 11:35AM	12 testimony 11:38AM
13 BY MR. WONG: 11:35AM	13 THE WITNESS: From an architectural perspective, 11:38AM
14 Q Was there any discussion with any of the third 11:35AM	14 it was it had to do with how to co-exist with 11:38AM
15 parties that we just discussed about the commands that 11:35AM	15 existing protocols and features on Cisco platforms 11:38AM
16 would be used for LLDP? 11:35AM	16 BY MR. WONG: 11:38AM
17 MR. CANNON: Objection; vague. 11:35AM	17 Q And what did you do with respect to Phase 1 of 11:38AM
18 THE WITNESS: No. 11:35AM	18 the LLDP project to ensure that it co-existed with 11:38AM
19 BY MR. WONG: 11:35AM	19 existing protocols and features on Cisco platforms? 11:38AM
20 Q Was there any discussion with any of the third 11:35AM	20 A From an architectural standpoint, kept the LLDP 11:38AM
21 parties that we just discussed about the interface 11:35 AM	21 database insulated and separate and disjoined from other 11:38AM
22 command-line interface in general that would be used for 11:35AM	22 discovery protocols 11:39AM
23 LLDP? 11:36AM	23 And from a protocol standpoint, made sure that 11:39AM
24 A No. 11:36AM	24 there is no relationship or collaboration between 11:39AM
25 Q Looking back at Exhibit 313 under the description 11:36AM	25 discovery protocols and they just function 11:39AM
Page 82	Page 84
1 under "Cisco Systems." 11:36AM	l independently 11:39AM
1 under "Cisco Systems." 11:36AM 2 A Yeah. 11:36AM	1 independently 11:39AM 2 Q Before the break, you testified about 11:39AM
1 under "Cisco Systems." 11:36AM 2 A Yeah. 11:36AM 3 Q It says, " lead design and development of 11:36AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM
1 under "Cisco Systems." 11:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM
1 under "Cisco Systems." 11:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM
1 under "Cisco Systems." 11:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM
1 under "Cisco Systems." 11:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM
1 under "Cisco Systems." 11:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM 8 referring to there? 11:36AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM 8 Q Who was the person or persons that you spoke with 11:39AM
1 under "Cisco Systems." 11:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM 8 referring to there? 11:36AM 9 A In terms of actual leadership for those modules, 11:36AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM 8 Q Who was the person or persons that you spoke with 11:39AM 9 at HP ProCurve regarding Phase 1 of the LLDP project? 11:40AM
1 under "Cisco Systems." 11:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM 8 referring to there? 11:36AM 9 A In terms of actual leadership for those modules, 11:36AM 10 Hed the Phase I for LLDP, Phase 2 of LLDP. I also led 11:36AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM 8 Q Who was the person or persons that you spoke with 11:39AM 9 at HP ProCurve regarding Phase 1 of the LLDP project? 11:40AM 10 A I do not recall their name, but I do remember 11:40AM
1 under "Cisco Systems." 1 under "Cisco Systems." 11:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM 8 referring to there? 11:36AM 9 A In terms of actual leadership for those modules, 11:36AM 10 I led the Phase 1 for LLDP, Phase 2 of LLDP. I also led 11:36AM 11 another project which was completely unrelated. 11:36AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM 8 Q Who was the person or persons that you spoke with 11:39AM 9 at HP ProCurve regarding Phase 1 of the LLDP project? 11:40AM 10 A I do not recall their name, but I do remember 11:40AM 11 that he was a highly knowledgeable person at HP ProCurve 11:40AM
1 under "Cisco Systems." 1 under "Cisco Systems." 11:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM 8 referring to there? 11:36AM 9 A In terms of actual leadership for those modules, 11:36AM 10 I led the Phase 1 for LLDP, Phase 2 of LLDP. I also led 11:36AM 11 another project which was completely unrelated. 11:36AM 12 Q And what was that project about? 11:36AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM 8 Q Who was the person or persons that you spoke with 11:39AM 9 at HP ProCurve regarding Phase 1 of the LLDP project? 11:40AM 10 A I do not recall their name, but I do remember 11:40AM 11 that he was a highly knowledgeable person at HP ProCurve 11:40AM 12 who was responsible for product development, as well as 11:40AM
1 under "Cisco Systems." 1 under "Cisco Systems." 1 under "Cisco Systems." 1 1:36AM 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM 8 referring to there? 11:36AM 9 A In terms of actual leadership for those modules, 11:36AM 10 I led the Phase 1 for LLDP, Phase 2 of LLDP. I also led 11:36AM 11 another project which was completely unrelated. 11:36AM 12 Q And what was that project about? 11:36AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM 8 Q Who was the person or persons that you spoke with 11:39AM 9 at HP ProCurve regarding Phase 1 of the LLDP project? 11:40AM 10 A I do not recall their name, but I do remember 11:40AM 11 that he was a highly knowledgeable person at HP ProCurve 11:40AM 12 who was responsible for product development, as well as 11:40AM 13 represent HP ProCurve at IEEE 11:40AM
1 under "Cisco Systems." 1 under "Cisco Systems." 1 under "Cisco Systems." 1 1:36AM 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM 8 referring to there? 11:36AM 9 A In terms of actual leadership for those modules, 11:36AM 10 I led the Phase 1 for LLDP, Phase 2 of LLDP. I also led 11:36AM 11 another project which was completely unrelated. 11:36AM 12 Q And what was that project about? 11:36AM 13 A It was a product for developing what is called 11:36AM 14 Multilayer Routing Information Base. 11:37AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM 8 Q Who was the person or persons that you spoke with 11:39AM 9 at HP ProCurve regarding Phase 1 of the LLDP project? 11:40AM 10 A I do not recall their name, but I do remember 11:40AM 11 that he was a highly knowledgeable person at HP ProCurve 11:40AM 12 who was responsible for product development, as well as 11:40AM 13 represent HP ProCurve at IEEE 11:40AM 14 Q And how did you come to know of this person at HP 11:40AM
1 under "Cisco Systems." 1 under "Cisco Systems." 1 1:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM 8 referring to there? 11:36AM 9 A In terms of actual leadership for those modules, 11:36AM 10 I led the Phase 1 for LLDP, Phase 2 of LLDP. I also led 11:36AM 11 another project which was completely unrelated. 11:36AM 12 Q And what was that project about? 13:36AM 13 A It was a product for developing what is called 11:36AM 14 Multilayer Routing Information Base. 11:37AM 15 Q Further down in Exhibit 313, in that same 11:37AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM 8 Q Who was the person or persons that you spoke with 11:39AM 9 at HP ProCurve regarding Phase 1 of the LLDP project? 11:40AM 10 A I do not recall their name, but I do remember 11:40AM 11 that he was a highly knowledgeable person at HP ProCurve 11:40AM 12 who was responsible for product development, as well as 11:40AM 13 represent HP ProCurve at IEEE 11:40AM 14 Q And how did you come to know of this person at HP 11:40AM 15 ProCurve? 11:40AM
1 under "Cisco Systems." 1 under "Cisco Systems." 1 1:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM 8 referring to there? 11:36AM 9 A In terms of actual leadership for those modules, 11:36AM 10 Hed the Phase 1 for LLDP, Phase 2 of LLDP. I also led 11:36AM 11 another project which was completely unrelated. 11:36AM 12 Q And what was that project about? 11:36AM 13 A It was a product for developing what is called 11:36AM 14 Multilayer Routing Information Base. 11:37AM 15 Q Further down in Exhibit 313, in that same 11:37AM 16 paragraph, it says, "Made key architectural decisions 11:37AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM 8 Q Who was the person or persons that you spoke with 11:39AM 9 at HP ProCurve regarding Phase I of the LLDP project? 11:40AM 10 A I do not recall their name, but I do remember 11:40AM 11 that he was a highly knowledgeable person at HP ProCurve 11:40AM 12 who was responsible for product development, as well as 11:40AM 13 represent HP ProCurve at IEEE 11:40AM 14 Q And how did you come to know of this person at HP 11:40AM 15 ProCurve? 11:40AM 16 A I don't recall the actual event that made me 11:40AM
1 under "Cisco Systems." 1 under "Cisco Systems." 1 1:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM 8 referring to there? 11:36AM 9 A In terms of actual leadership for those modules, 11:36AM 10 I led the Phase 1 for LLDP, Phase 2 of LLDP. I also led 11:36AM 11 another project which was completely unrelated. 11:36AM 12 Q And what was that project about? 11:36AM 13 A It was a product for developing what is called 11:36AM 14 Multilayer Routing Information Base. 11:37AM 15 Q Further down in Exhibit 313, in that same 11:37AM 16 paragraph, it says, "Made key architectural decisions 11:37AM 17 for products, resulting in successful deliveries for 11:37AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM 8 Q Who was the person or persons that you spoke with 11:39AM 9 at HP ProCurve regarding Phase I of the LLDP project? 11:40AM 10 A I do not recall their name, but I do remember 11:40AM 11 that he was a highly knowledgeable person at HP ProCurve 11:40AM 12 who was responsible for product development, as well as 11:40AM 13 represent HP ProCurve at IEEE 11:40AM 14 Q And how did you come to know of this person at HP 11:40AM 15 ProCurve? 11:40AM 16 A I don't recall the actual event that made me 11:40AM 17 aware of this person, but it might have been through 11:40AM
1 under "Cisco Systems." 1 under "Cisco Systems." 1 1:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM 8 referring to there? 11:36AM 9 A In terms of actual leadership for those modules, 11:36AM 10 Hed the Phase 1 for LLDP, Phase 2 of LLDP. I also led 11:36AM 11 another project which was completely unrelated. 11:36AM 12 Q And what was that project about? 13:36AM 14 Multilayer Routing Information Base. 11:37AM 15 Q Further down in Exhibit 313, in that same 11:37AM 16 paragraph, it says, "Made key architectural decisions 11:37AM 17 for products, resulting in successful deliveries for 11:37AM 18 several multi-billion dollar market segments." 11:37AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM 8 Q Who was the person or persons that you spoke with 11:39AM 9 at HP ProCurve regarding Phase I of the LLDP project? 11:40AM 10 A I do not recall their name, but I do remember 11:40AM 11 that he was a highly knowledgeable person at HP ProCurve 11:40AM 12 who was responsible for product development, as well as 11:40AM 13 represent HP ProCurve at IEEE 11:40AM 14 Q And how did you come to know of this person at HP 11:40AM 15 ProCurve? 11:40AM 16 A I don't recall the actual event that made me 11:40AM 17 aware of this person, but it might have been through 11:40AM 18 some keyword search that eventually led to their contact 11:40AM
1 under "Cisco Systems." 1 under "Cisco Systems." 1 1:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM 8 referring to there? 11:36AM 9 A In terms of actual leadership for those modules, 11:36AM 10 I led the Phase 1 for LLDP, Phase 2 of LLDP. I also led 11:36AM 11 another project which was completely unrelated. 11:36AM 12 Q And what was that project about? 11:36AM 13 A It was a product for developing what is called 11:36AM 14 Multilayer Routing Information Base. 11:37AM 15 Q Further down in Exhibit 313, in that same 11:37AM 16 paragraph, it says, "Made key architectural decisions 11:37AM 17 for products, resulting in successful deliveries for 11:37AM 18 several multi-billion dollar market segments." 11:37AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM 8 Q Who was the person or persons that you spoke with 11:39AM 9 at HP ProCurve regarding Phase 1 of the LLDP project? 11:40AM 10 A I do not recall their name, but I do remember 11:40AM 11 that he was a highly knowledgeable person at HP ProCurve 11:40AM 12 who was responsible for product development, as well as 11:40AM 13 represent HP ProCurve at IEEE 11:40AM 14 Q And how did you come to know of this person at HP 11:40AM 15 ProCurve? 11:40AM 16 A I don't recall the actual event that made me 11:40AM 17 aware of this person, but it might have been through 11:40AM 18 some keyword search that eventually led to their contact 11:40AM 19 information 11:40AM
1 under "Cisco Systems." 1 under "Cisco Systems." 1 1:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM 8 referring to there? 11:36AM 9 A In terms of actual leadership for those modules, 11:36AM 10 I led the Phase 1 for LLDP, Phase 2 of LLDP. I also led 11:36AM 11 another project which was completely unrelated. 11:36AM 12 Q And what was that project about? 13:36AM 13 A It was a product for developing what is called 11:36AM 14 Multilayer Routing Information Base. 11:37AM 15 Q Further down in Exhibit 313, in that same 11:37AM 16 paragraph, it says, "Made key architectural decisions 11:37AM 17 for products, resulting in successful deliveries for 11:37AM 18 several multi-billion dollar market segments." 11:37AM 10 Do you see that? 11:37AM 11:37AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM 8 Q Who was the person or persons that you spoke with 11:39AM 9 at HP ProCurve regarding Phase 1 of the LLDP project? 11:40AM 10 A I do not recall their name, but I do remember 11:40AM 11 that he was a highly knowledgeable person at HP ProCurve 11:40AM 12 who was responsible for product development, as well as 11:40AM 13 represent HP ProCurve at IEEE 11:40AM 14 Q And how did you come to know of this person at HP 11:40AM 15 ProCurve? 11:40AM 16 A I don't recall the actual event that made me 11:40AM 17 aware of this person, but it might have been through 11:40AM 18 some keyword search that eventually led to their contact 11:40AM 19 information 11:40AM 20 Q When you say "keyword search," what type of 11:40AM
1 under "Cisco Systems." 1 under "Cisco Systems." 1 1:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM 8 referring to there? 11:36AM 9 A In terms of actual leadership for those modules, 11:36AM 10 Hed the Phase 1 for LLDP, Phase 2 of LLDP. I also led 11:36AM 11 another project which was completely unrelated. 11:36AM 12 Q And what was that project about? 11:36AM 13 A It was a product for developing what is called 11:36AM 14 Multilayer Routing Information Base. 11:37AM 15 Q Further down in Exhibit 313, in that same 11:37AM 16 paragraph, it says, "Made key architectural decisions 11:37AM 17 for products, resulting in successful deliveries for 11:37AM 18 several multi-billion dollar market segments." 11:37AM 10 Do you see that? 11:37AM 11:37AM 11:37AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM 8 Q Who was the person or persons that you spoke with 11:39AM 9 at HP ProCurve regarding Phase I of the LLDP project? 11:40AM 10 A I do not recall their name, but I do remember 11:40AM 11 that he was a highly knowledgeable person at HP ProCurve 11:40AM 12 who was responsible for product development, as well as 11:40AM 13 represent HP ProCurve at IEEE 11:40AM 14 Q And how did you come to know of this person at HP 11:40AM 15 ProCurve? 11:40AM 16 A I don't recall the actual event that made me 11:40AM 17 aware of this person, but it might have been through 11:40AM 18 some keyword search that eventually led to their contact 11:40AM 19 information 11:40AM 20 Q When you say "keyword search," what type of 11:40AM 21 search are you referring to? 11:41AM
1 under "Cisco Systems." 1 under "Cisco Systems." 1 1:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM 8 referring to there? 11:36AM 9 A In terms of actual leadership for those modules, 11:36AM 10 I led the Phase 1 for LLDP, Phase 2 of LLDP. I also led 11:36AM 11 another project which was completely unrelated. 11:36AM 12 Q And what was that project about? 11:36AM 13 A It was a product for developing what is called 11:36AM 14 Multilayer Routing Information Base. 11:37AM 15 Q Further down in Exhibit 313, in that same 11:37AM 16 paragraph, it says, "Made key architectural decisions 11:37AM 17 for products, resulting in successful deliveries for 11:37AM 18 several multi-billion dollar market segments." 11:37AM 20 A Mm-hmm. 11:37AM 21 Q What are you talking about there? 11:37AM 22 A I'm talking primarily about Phase 1 of LLDP and 11:37AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM 8 Q Who was the person or persons that you spoke with 11:39AM 9 at HP ProCurve regarding Phase I of the LLDP project? 11:40AM 10 A I do not recall their name, but I do remember 11:40AM 11 that he was a highly knowledgeable person at HP ProCurve 11:40AM 12 who was responsible for product development, as well as 11:40AM 13 represent HP ProCurve at IEEE 11:40AM 14 Q And how did you come to know of this person at HP 11:40AM 15 ProCurve? 11:40AM 16 A I don't recall the actual event that made me 11:40AM 17 aware of this person, but it might have been through 11:40AM 18 some keyword search that eventually led to their contact 11:40AM 19 information 11:40AM 20 Q When you say "keyword search," what type of 11:40AM 21 search are you referring to? 11:41AM 22 A A search on LLDP feature set of our the 11:41AM
1 under "Cisco Systems." 1 under "Cisco Systems." 1 1:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM 8 referring to there? 11:36AM 9 A In terms of actual leadership for those modules, 11:36AM 10 Hed the Phase 1 for LLDP, Phase 2 of LLDP. I also led 11:36AM 11 another project which was completely unrelated. 11:36AM 12 Q And what was that project about? 13:36AM 14 Multilayer Routing Information Base. 11:37AM 15 Q Further down in Exhibit 313, in that same 11:37AM 16 paragraph, it says, "Made key architectural decisions 11:37AM 17 for products, resulting in successful deliveries for 11:37AM 18 several multi-billion dollar market segments." 11:37AM 10 Do you see that? 11:37AM 21 Q What are you talking about there? 11:37AM 22 A I'm talking primarily about Phase 1 of LLDP and 11:37AM 23 Phase 2 of LLDP and even, to some extent, MLRIB. 11:37AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM 8 Q Who was the person or persons that you spoke with 11:39AM 9 at HP ProCurve regarding Phase 1 of the LLDP project? 11:40AM 10 A I do not recall their name, but I do remember 11:40AM 11 that he was a highly knowledgeable person at HP ProCurve 11:40AM 12 who was responsible for product development, as well as 11:40AM 13 represent HP ProCurve at IEEE 11:40AM 14 Q And how did you come to know of this person at HP 11:40AM 15 ProCurve? 11:40AM 16 A I don't recall the actual event that made me 11:40AM 17 aware of this person, but it might have been through 11:40AM 18 some keyword search that eventually led to their contact 11:40AM 19 information 11:40AM 20 Q When you say "keyword search," what type of 11:40AM 21 search are you referring to? 11:41AM 22 A A search on LLDP feature set of our the 11:41AM 23 mechanics of it at a at a level deeper than what one 11:41AM
1 under "Cisco Systems." 1 under "Cisco Systems." 1 1:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM 8 referring to there? 11:36AM 9 A In terms of actual leadership for those modules, 11:36AM 10 I led the Phase 1 for LLDP, Phase 2 of LLDP. I also led 11:36AM 11 another project which was completely unrelated. 11:36AM 12 Q And what was that project about? 11:36AM 13 A It was a product for developing what is called 11:36AM 14 Multilayer Routing Information Base. 11:37AM 15 Q Further down in Exhibit 313, in that same 11:37AM 16 paragraph, it says, "Made key architectural decisions 11:37AM 17 for products, resulting in successful deliveries for 11:37AM 18 several multi-billion dollar market segments." 11:37AM 20 A Mm-hmm. 11:37AM 21 Q What are you talking about there? 11:37AM 22 A I'm talking primarily about Phase 1 of LLDP and 11:37AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM 8 Q Who was the person or persons that you spoke with 11:39AM 9 at HP ProCurve regarding Phase 1 of the LLDP project? 11:40AM 10 A I do not recall their name, but I do remember 11:40AM 11 that he was a highly knowledgeable person at HP ProCurve 11:40AM 12 who was responsible for product development, as well as 11:40AM 13 represent HP ProCurve at IEEE 11:40AM 14 Q And how did you come to know of this person at HP 11:40AM 15 ProCurve? 11:40AM 16 A I don't recall the actual event that made me 11:40AM 17 aware of this person, but it might have been through 11:40AM 18 some keyword search that eventually led to their contact 11:40AM 19 information 11:40AM 20 Q When you say "keyword search," what type of 11:40AM 21 search are you referring to? 11:41AM 22 A A search on LLDP feature set of our the 11:41AM 23 mechanics of it at a at a level deeper than what one 11:41AM 24 would search for discovery protocols in general So 11:41AM
1 under "Cisco Systems." 11:36AM 2 A Yeah. 3 Q It says, " lead design and development of 11:36AM 4 software modules of Cisco IOS." 11:36AM 5 Do you see that? 11:36AM 6 A Yes. 11:36AM 7 Q What software modules of Cisco IOS are you 11:36AM 8 referring to there? 11:36AM 9 A In terms of actual leadership for those modules, 11:36AM 10 I led the Phase 1 for LLDP, Phase 2 of LLDP. I also led 11:36AM 11 another project which was completely unrelated. 11:36AM 12 Q And what was that project about? 13:36AM 13 A It was a product for developing what is called 11:36AM 14 Multilayer Routing Information Base. 11:37AM 15 Q Further down in Exhibit 313, in that same 11:37AM 16 paragraph, it says, "Made key architectural decisions 11:37AM 17 for products, resulting in successful deliveries for 11:37AM 18 several multi-billion dollar market segments." 11:37AM 10 Do you see that? 11:37AM 21 Q What are you talking about there? 11:37AM 22 A I'm talking primarily about Phase 1 of LLDP and 11:37AM 23 Phase 2 of LLDP and even, to some extent, MLRIB. 11:37AM 24 Q What was that last acronym you said? 11:37AM	2 Q Before the break, you testified about 11:39AM 3 conversations that you had with someone at HP ProCurve 11:39AM 4 regarding LLDP 11:39AM 5 A Yes 11:39AM 6 Q Do you remember that? 11:39AM 7 A Yes 11:39AM 8 Q Who was the person or persons that you spoke with 11:39AM 9 at HP ProCurve regarding Phase 1 of the LLDP project? 11:40AM 10 A I do not recall their name, but I do remember 11:40AM 11 that he was a highly knowledgeable person at HP ProCurve 11:40AM 12 who was responsible for product development, as well as 11:40AM 13 represent HP ProCurve at IEEE 11:40AM 14 Q And how did you come to know of this person at HP 11:40AM 15 ProCurve? 11:40AM 16 A I don't recall the actual event that made me 11:40AM 17 aware of this person, but it might have been through 11:40AM 18 some keyword search that eventually led to their contact 11:40AM 19 information 11:40AM 20 Q When you say "keyword search," what type of 11:40AM 21 search are you referring to? 11:41AM 22 A A search on LLDP feature set of our the 11:41AM 23 mechanics of it at a at a level deeper than what one 11:41AM

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 80 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 80 of 122 CONFIDENTIAL

-			
	l MR WONG: Right 12:24PM		I activity for LLDP was was happening, and it I 12:28PM
2	2 Q The Arista Networks's EOS was an example of 12:24PM	2	2 recall that it was it was slow for a period of time 12:28PM
3	3 innovation in this area; correct? 12:24PM	3	3 in between and then it took off again. 12:28PM
	4 MR CANNON: Objection; vague 12:24PM	4	BY MR. WONG: 12:28PM
1 :	5 THE WITNESS: Example, yes 12:24PM	5	Q And you didn't participate in any of the efforts 12:28PM
	6 MR CANNON: mischaracterizes prior testimony, 12:24PM	6	to standardize LLDP from the '90s to 2004; is that 12:28PM
1 2	7 lacks foundation, calls for improper opinion testimony 12:24PM	1	7 right? 12:28PM
	8 BY MR WONG: 12:24PM	8	
	9 Q And these are these are your words here on 12:24PM	9	
10	·		of the LLDP standard; correct? 12:28PM
11		11	
12	• • • •	12	
	· · · · · ·	13	
1	B your thesis marked as Exhibit 314; correct? 12:24PM		• •
14		14	
i	5 opinion testimony, lacks foundation 12:24PM	15	3
16	· · · · · · · · · · · · · · · · · · ·	16	
	opinions 12:25PM	17	
18		18	
19	` ' ' ' '	19	·
20	description of what "LLDP" is? 12:25PM		P-u-r-n-a-m. 12:29PM
21	A Yes Yes, I can 12:25PM	21	Q And how did you learn about the LLDP standard, 12:29PM
22	Q What what is "LLDP"? 12:25PM	22	the the way it worked? 12:29PM
23	A "LLDP" stands for Link Layer Discovery Protocol, 12:25PM	23	A I upon being tasked with this with this 12:29PM
24	and it is a at a high-level, it's a standardized way 12:25PM	24	project, to lead this project, I did some initial 12:29PM
25	for devices to discover each other and know of each 12:25PM	25	research and it was very aggressive project at that 12:29PM
	Page 114		Page 116
1	other. 12:25PM	1	point, and so I yeah, I researched it actively and 12:29PM
1 2		1	. ,
2	Q When you say it's a "standardized way for devices 12:25PM	2	wanted to know as much of it as possible as early as 12:29PM
2	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM	2	wanted to know as much of it as possible as early as possible. 12:29PM
2 3 4	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM	2 3 4	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM
2 3 4 5	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM	2 3 4 5	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM
2 3 4 5 6	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM	2 3 4 5 6	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM
2 3 4 5 6 7	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and 12:26PM	2 3 4 5 6 7	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM
2 3 4 5 6 7 8	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and 12:26PM it's meant in contrast with how proprietary discovery 12:26PM	2 3 4 5 6 7 8	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM
2 3 4 5 6 7 8 9	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM	2 3 4 5 6 7 8 9	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM
2 3 4 5 6 7 8 9	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and 12:26PM it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM Q When you say it's a "ratified agreement," what do 12:26PM	2 3 4 5 6 7 8 9	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM there was an RFC and that that got me into it, yeah. 12:30PM
2 3 4 5 6 7 8 9 10	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and 12:26PM it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM Q When you say it's a "ratified agreement," what do 12:26PM you mean by "ratified"? 12:26PM	2 3 4 5 6 7 8 9 10	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM there was an RFC and that that got me into it, yeah. 12:30PM Q Did you review the IEEE standard that related to 12:30PM
2 3 4 5 6 7 8 9 10 11 12	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and 12:26PM it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM Q When you say it's a "ratified agreement," what do 12:26PM you mean by "ratified"? 12:26PM A "Ratified" means something that has been 12:26PM	2 3 4 5 6 7 8 9 10 11	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM there was an RFC and that that got me into it, yeah. 12:30PM Q Did you review the IEEE standard that related to 12:30PM LLDP? 12:30PM
2 3 4 5 6 7 8 9 10 11 12 13	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and 12:26PM it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM Q When you say it's a "ratified agreement," what do 12:26PM you mean by "ratified"? 12:26PM A "Ratified" means something that has been 12:26PM something that has withstood the test of time and has 12:26PM	2 3 4 5 6 7 8 9 10 11 12	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM there was an RFC and that that got me into it, yeah. 12:30PM Q Did you review the IEEE standard that related to 12:30PM LLDP? 12:30PM A Yes. 12:30PM
2 3 4 5 6 7 8 9 10 11 12 13 14	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and 12:26PM it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM Q When you say it's a "ratified agreement," what do 12:26PM you mean by "ratified"? 12:26PM A "Ratified" means something that has been 12:26PM something that has withstood the test of time and has 12:26PM been reviewed by several experts in the industry who 12:27PM	2 3 4 5 6 7 8 9 10 11 12 13 14	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM there was an RFC and that that got me into it, yeah. 12:30PM Q Did you review the IEEE standard that related to 12:30PM LLDP? 12:30PM A Yes. 12:30PM MR. WONG: Let's mark this as 315, please. 12:30PM
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and 12:26PM it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM Q When you say it's a "ratified agreement," what do 12:26PM you mean by "ratified"? 12:26PM A "Ratified" means something that has been 12:26PM something that has withstood the test of time and has 12:26PM been reviewed by several experts in the industry who 12:27PM who have the ability to see that not just from a 12:27PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM there was an RFC and that that got me into it, yeah. 12:30PM Q Did you review the IEEE standard that related to 12:30PM LLDP? 12:30PM A Yes. 12:30PM MR. WONG: Let's mark this as 315, please. 12:30PM (Exhibit 315 was marked for 12:31PM
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and 12:26PM it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM Q When you say it's a "ratified agreement," what do 12:26PM you mean by "ratified"? 12:26PM A "Ratified" means something that has been 12:26PM something that has withstood the test of time and has 12:26PM been reviewed by several experts in the industry who 12:27PM who have the ability to see that not just from a 12:27PM feature perspective but also from a holistic perspective 12:27PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM there was an RFC and that that got me into it, yeah. 12:30PM Q Did you review the IEEE standard that related to 12:30PM LLDP? 12:30PM A Yes. 12:30PM MR. WONG: Let's mark this as 315, please. 12:30PM (Exhibit 315 was marked for 12:31PM identification by the Court Reporter.) 12:31PM
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and 12:26PM it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM Q When you say it's a "ratified agreement," what do 12:26PM you mean by "ratified"? 12:26PM A "Ratified" means something that has been 12:26PM something that has withstood the test of time and has 12:26PM been reviewed by several experts in the industry who 12:27PM who have the ability to see that not just from a 12:27PM feature perspective but also from a holistic perspective 12:27PM to see if it was actually viable viable to do that, 12:27PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM there was an RFC and that that got me into it, yeah. 12:30PM Q Did you review the IEEE standard that related to 12:30PM LLDP? 12:30PM A Yes. 12:30PM MR. WONG: Let's mark this as 315, please. 12:30PM (Exhibit 315 was marked for 12:31PM identification by the Court Reporter.) 12:31PM MR. WONG: The Reporter has marked, as 12:31PM
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and 12:26PM it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM Q When you say it's a "ratified agreement," what do 12:26PM you mean by "ratified"? 12:26PM A "Ratified" means something that has been 12:26PM something that has withstood the test of time and has 12:26PM been reviewed by several experts in the industry who 12:27PM who have the ability to see that not just from a 12:27PM feature perspective but also from a holistic perspective 12:27PM to see if it was actually viable viable to do that, 12:27PM and then they collectively meet and discuss their 12:27PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM there was an RFC and that that got me into it, yeah. 12:30PM Q Did you review the IEEE standard that related to 12:30PM LLDP? 12:30PM A Yes. 12:30PM MR. WONG: Let's mark this as 315, please. 12:30PM (Exhibit 315 was marked for 12:31PM identification by the Court Reporter.) 12:31PM MR. WONG: The Reporter has marked, as 12:31PM Exhibit 315, document bearing control numbers 12:31PM
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and 12:26PM it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM Q When you say it's a "ratified agreement," what do 12:26PM you mean by "ratified"? 12:26PM A "Ratified" means something that has been 12:26PM something that has withstood the test of time and has 12:26PM been reviewed by several experts in the industry who 12:27PM who have the ability to see that not just from a 12:27PM feature perspective but also from a holistic perspective 12:27PM to see if it was actually viable viable to do that, 12:27PM and then they collectively meet and discuss their 12:27PM concerns and refine the standard appropriately and then 12:27PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM there was an RFC and that that got me into it, yeah. 12:30PM Q Did you review the IEEE standard that related to 12:30PM LLDP? 12:30PM A Yes. 12:30PM MR. WONG: Let's mark this as 315, please. 12:30PM (Exhibit 315 was marked for 12:31PM identification by the Court Reporter.) 12:31PM MR. WONG: The Reporter has marked, as 12:31PM Exhibit 315, document bearing control numbers 12:31PM ARISTANDCA00017907 to 18078. 12:31PM
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and 12:26PM it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM Q When you say it's a "ratified agreement," what do 12:26PM you mean by "ratified"? 12:26PM A "Ratified" means something that has been 12:26PM something that has withstood the test of time and has 12:26PM been reviewed by several experts in the industry who 12:27PM who have the ability to see that not just from a 12:27PM feature perspective but also from a holistic perspective 12:27PM to see if it was actually viable viable to do that, 12:27PM and then they collectively meet and discuss their 12:27PM concerns and refine the standard appropriately and then 12:27PM agree on a version that is that can be considered 12:27PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM there was an RFC and that that got me into it, yeah. 12:30PM Q Did you review the IEEE standard that related to 12:30PM LLDP? 12:30PM A Yes. 12:30PM MR. WONG: Let's mark this as 315, please. 12:30PM (Exhibit 315 was marked for 12:31PM identification by the Court Reporter.) 12:31PM MR. WONG: The Reporter has marked, as 12:31PM Exhibit 315, document bearing control numbers 12:31PM ARISTANDCA00017907 to 18078. 12:31PM Q Mr. Patil, do you recognize the document marked 12:31PM
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and 12:26PM it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM Q When you say it's a "ratified agreement," what do 12:26PM you mean by "ratified"? 12:26PM A "Ratified" means something that has been 12:26PM something that has withstood the test of time and has 12:26PM been reviewed by several experts in the industry who 12:27PM who have the ability to see that not just from a 12:27PM feature perspective but also from a holistic perspective 12:27PM to see if it was actually viable viable to do that, 12:27PM and then they collectively meet and discuss their 12:27PM concerns and refine the standard appropriately and then 12:27PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM there was an RFC and that that got me into it, yeah. 12:30PM Q Did you review the IEEE standard that related to 12:30PM LLDP? 12:30PM A Yes. 12:30PM MR. WONG: Let's mark this as 315, please. 12:30PM (Exhibit 315 was marked for 12:31PM identification by the Court Reporter.) 12:31PM MR. WONG: The Reporter has marked, as 12:31PM Exhibit 315, document bearing control numbers 12:31PM ARISTANDCA00017907 to 18078. 12:31PM
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and 12:26PM it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM Q When you say it's a "ratified agreement," what do 12:26PM you mean by "ratified"? 12:26PM A "Ratified" means something that has been 12:26PM something that has withstood the test of time and has 12:26PM been reviewed by several experts in the industry who 12:27PM who have the ability to see that not just from a 12:27PM feature perspective but also from a holistic perspective 12:27PM to see if it was actually viable viable to do that, 12:27PM and then they collectively meet and discuss their 12:27PM concerns and refine the standard appropriately and then 12:27PM agree on a version that is that can be considered 12:27PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM there was an RFC and that that got me into it, yeah. 12:30PM Q Did you review the IEEE standard that related to 12:30PM LLDP? 12:30PM A Yes. 12:30PM MR. WONG: Let's mark this as 315, please. 12:30PM (Exhibit 315 was marked for 12:31PM identification by the Court Reporter.) 12:31PM MR. WONG: The Reporter has marked, as 12:31PM Exhibit 315, document bearing control numbers 12:31PM ARISTANDCA00017907 to 18078. 12:31PM Q Mr. Patil, do you recognize the document marked 12:31PM
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and 12:26PM it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM Q When you say it's a "ratified agreement," what do 12:26PM you mean by "ratified"? 12:26PM A "Ratified" means something that has been 12:26PM something that has withstood the test of time and has 12:26PM been reviewed by several experts in the industry who 12:27PM who have the ability to see that not just from a 12:27PM feature perspective but also from a holistic perspective 12:27PM to see if it was actually viable viable to do that, 12:27PM and then they collectively meet and discuss their 12:27PM concerns and refine the standard appropriately and then 12:27PM agree on a version that is that can be considered 12:27PM standard. 12:27PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM there was an RFC and that that got me into it, yeah. 12:30PM Q Did you review the IEEE standard that related to 12:30PM LLDP? 12:30PM A Yes. 12:30PM MR. WONG: Let's mark this as 315, please. 12:30PM (Exhibit 315 was marked for 12:31PM identification by the Court Reporter.) 12:31PM MR. WONG: The Reporter has marked, as 12:31PM Exhibit 315, document bearing control numbers 12:31PM ARISTANDCA00017907 to 18078. 12:31PM Q Mr. Patil, do you recognize the document marked 12:31PM as Exhibit 315? 12:31PM
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM Q When you say it's a "ratified agreement," what do 12:26PM you mean by "ratified"? 12:26PM A "Ratified" means something that has been 12:26PM something that has withstood the test of time and has 12:26PM been reviewed by several experts in the industry who 12:27PM who have the ability to see that not just from a 12:27PM to see if it was actually viable viable to do that, 12:27PM and then they collectively meet and discuss their 12:27PM concerns and refine the standard appropriately and then 12:27PM agree on a version that is that can be considered 12:27PM standard. 12:27PM Q Do you know when LLDP was standardized? 12:27PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM there was an RFC and that that got me into it, yeah. 12:30PM Q Did you review the IEEE standard that related to 12:30PM LLDP? 12:30PM A Yes. 12:30PM MR. WONG: Let's mark this as 315, please. 12:30PM (Exhibit 315 was marked for 12:31PM identification by the Court Reporter.) 12:31PM MR. WONG: The Reporter has marked, as 12:31PM Exhibit 315, document bearing control numbers 12:31PM ARISTANDCA00017907 to 18078. 12:31PM Q Mr. Patil, do you recognize the document marked 12:31PM as Exhibit 315? 12:31PM A I do. 12:31PM
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM Q When you say it's a "ratified agreement," what do 12:26PM you mean by "ratified"? 12:26PM A "Ratified" means something that has been 12:26PM something that has withstood the test of time and has 12:26PM been reviewed by several experts in the industry who 12:27PM who have the ability to see that not just from a 12:27PM feature perspective but also from a holistic perspective 12:27PM and then they collectively meet and discuss their 12:27PM and then they collectively meet and discuss their 12:27PM concerns and refine the standard appropriately and then 12:27PM agree on a version that is that can be considered 12:27PM standard. 12:27PM Q Do you know when LLDP was standardized? 12:27PM THE WITNESS: The initial attempt, I think, from 12:27PM late '90s to early to 2004 is when the standards 12:28PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM there was an RFC and that that got me into it, yeah. 12:30PM Q Did you review the IEEE standard that related to 12:30PM LLDP? 12:30PM A Yes. 12:30PM MR. WONG: Let's mark this as 315, please. 12:30PM (Exhibit 315 was marked for 12:31PM identification by the Court Reporter.) 12:31PM MR. WONG: The Reporter has marked, as 12:31PM Exhibit 315, document bearing control numbers 12:31PM A RISTANDCA00017907 to 18078. 12:31PM Q Mr. Patil, do you recognize the document marked 12:31PM A I do. 12:31PM A I do. 12:31PM Q And what is the document marked as Exhibit 315? 12:31PM A This is the 802.1AB, which is the technical name 12:31PM for LLDP, and it's an IEEE standard that represents the 12:31PM
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM Q When you say it's a "ratified agreement," what do 12:26PM you mean by "ratified"? 12:26PM A "Ratified" means something that has been 12:26PM something that has withstood the test of time and has 12:26PM been reviewed by several experts in the industry who 12:27PM who have the ability to see that not just from a 12:27PM feature perspective but also from a holistic perspective 12:27PM and then they collectively meet and discuss their 12:27PM concerns and refine the standard appropriately and then 12:27PM agree on a version that is that can be considered 12:27PM standard. 12:27PM Q Do you know when LLDP was standardized? 12:27PM MR. CANNON: Objection; vague. 12:27PM THE WITNESS: The initial attempt, I think, from 12:27PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM there was an RFC and that that got me into it, yeah. 12:30PM Q Did you review the IEEE standard that related to 12:30PM LLDP? 12:30PM A Yes. 12:30PM MR. WONG: Let's mark this as 315, please. 12:30PM (Exhibit 315 was marked for 12:31PM identification by the Court Reporter.) 12:31PM MR. WONG: The Reporter has marked, as 12:31PM Exhibit 315, document bearing control numbers 12:31PM ARISTANDCA00017907 to 18078. 12:31PM Q Mr. Patil, do you recognize the document marked 12:31PM as Exhibit 315? 12:31PM A Ido. 12:31PM Q And what is the document marked as Exhibit 315? 12:31PM A This is the 802.1AB, which is the technical name 12:31PM

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 81 of 122 CONFIDENTIAL

1 initial version of LLDP 12:31PM	
	1 implement LLDP, was it just you who was involved in that 12:34PM
2 Q And when was this IEEE standard approved? 12:31PM	2 effort? 12:34PM
3 A 1 don't recall the exact dates, but sometime in 12:31PM	3 A 1 recall that the first three months were 12:34PM
4 2007, is what I think the initial LLDP standard itself 12:32PM	4 extremely aggressive, and I was the only one actually 12:34PM
5 got approved 12:32PM	5 taking the lead on it and doing everything all the 12:34PM
6 Q Okay If you look at page 2 of 802 1AB excuse 12:32PM	6 stages of it in the in the first three three 12:34PM
7 me 12;32PM	7 months, so, yes, in the first three months, but no after 12:35PM
8 If you look at page 2 of Exhibit 315, there are 12:32PM	8 that 12:35PM
9 several dates there of of approval 12:32PM	9 Q And after the first three months, who else was 12:35PM
10 Do you see that? 12:32PM	10 involved in the LLDP project at Cisco? 12:35PM
11 A Page 12:32PM	11 A A lot of the there are a lot of testing people 12:35PM
12 Q I'm sorry, it's the second page of the actual 12:32PM	12 who were who got involved, a lot of people from 12:35PM
13 exhibit, not not the numbered page 2 12:32PM	13 individual business units who wanted to sort of, for 12:35PM
14 A Yeah, so second page here, copyrights I'm 12:32PM	14 lack of a better term, acquire this technology for their 12:35PM
15 looking at the physical second page 12:32PM	15 platform Their engineers wanted to get involved, and 12:35PM
16 Q Mm-hmm 12:32PM	16 they there were also people in our own NSSTG that were 12:35PM
17 A Is that what you mean? 12:32PM	17 supporting me 12:35PM
18 Q That's correct 12:32PM	18 THE VIDEOGRAPHER: Counsel 12:35PM
19 A This is page 1 and this is page 2 12:33PM	19 MR WONG: Yes? 12:35PM
20 Q That's right 12:33PM	20 Why don't we take a break right now 12:36PM
21 A So approved 28 June 2005 and approved March 2005, 12:33PM	21 THE VIDEOGRAPHER: We are going off the record at 12:36PM
22 yes 12:33PM	22 12:35 pm This is the end of Media 2 12:36PM
23 Q So does that match your recollection of when the 12:33PM	23 (Lunch recess taken) 12:36PM
24 LLDP standard was approved? 12:33PM	2400 12:36PM
25 A Approved, but not ratified and finalized 12:33PM	25 12.30FM
Page 118	
1 Q I see 12:33PM	I AFTERNOON SESSION 1:03 P M 12:36PM
What's the difference between the approval of a 12:33PM	2 12:36PM
3 standard and the ratification and finalization of a 12:33PM	3 (Exhibit 316 was marked for 12:36PM
4 standard? 12:33PM	
5 MR CANNON: Objection; vague, lacks foundation 12:33PM	4 identification by the Court Reporter) 01:03PM 5 THE VIDEOGRAPHER: We are on the record at 01:03PM
6 THE WITNESS: I have not been in the standards 12:33PM	
o THE WITNESS. Thave not been in the standards 12.55PM	6 1:01 1:03 p in This is the beginning of Media 3 in 01:03PM
7. b. 46 and advantage and an analysis discussed in the 10.22m (7 de des sides sCD este Deit CLOSDA
7 bodies actively myself, and my understanding is the 12:33PM	7 the deposition of Devadas Patil 01:03PM
8 various phases of it leading up leading to the actual 12:33PM	8 BY MR WONG: 01:03PM
8 various phases of it leading up leading to the actual 12:33PM 9 ratification whereby experts in that area of interest 12:33PM	8 BY MR WONG: 01:03PM 9 Q Welcome back from the break, Mr Patil 01:03PM
8 various phases of it leading up leading to the actual 12:33PM 9 ratification whereby experts in that area of interest 12:33PM 10 agree on a certain standard 12:33PM	8 BY MR WONG: 01:03PM 9 Q Welcome back from the break, Mr Patil 01:03PM 10 A Thank you 01:03PM
8 various phases of it leading up leading to the actual 12:33PM 9 ratification whereby experts in that area of interest 12:33PM 10 agree on a certain standard 12:33PM 11 BY MR WONG: 12:33PM	8 BY MR WONG: 01:03PM 9 Q Welcome back from the break, Mr Patil 01:03PM 10 A Thank you 01:03PM 11 Q The Court Reporter has marked, during the break, 01:04PM
8 various phases of it leading up leading to the actual 12:33PM 9 ratification whereby experts in that area of interest 12:33PM 10 agree on a certain standard 12:33PM 11 BY MR WONG: 12:33PM 12 Q And did you review the 802 IAB standard marked as 12:33PM	8 BY MR WONG: 01:03PM 9 Q Welcome back from the break, Mr Patil 01:03PM 10 A Thank you 01:03PM 11 Q The Court Reporter has marked, during the break, 01:04PM 12 as Exhibit 316, a document that's been placed in front 01:04PM
8 various phases of it leading up leading to the actual 12:33PM 9 ratification whereby experts in that area of interest 12:33PM 10 agree on a certain standard 12:33PM 11 BY MR WONG: 12:33PM 12 Q And did you review the 802 IAB standard marked as 12:33PM 13 Exhibit 315 while you were working on the LLDP 12:34PM	8 BY MR WONG: 01:03PM 9 Q Welcome back from the break, Mr Patil 01:03PM 10 A Thank you 01:03PM 11 Q The Court Reporter has marked, during the break, 01:04PM 12 as Exhibit 316, a document that's been placed in front 01:04PM 13 of you 01:04PM
8 various phases of it leading up leading to the actual 12:33PM 9 ratification whereby experts in that area of interest 12:33PM 10 agree on a certain standard 12:33PM 11 BY MR WONG: 12:33PM 12 Q And did you review the 802 IAB standard marked as 12:33PM 13 Exhibit 315 while you were working on the LLDP 12:34PM 14 project 12:34PM	8 BY MR WONG: 01:03PM 9 Q Welcome back from the break, Mr Patil 01:03PM 10 A Thank you 01:03PM 11 Q The Court Reporter has marked, during the break, 01:04PM 12 as Exhibit 316, a document that's been placed in front 01:04PM 13 of you 01:04PM 14 Do you see that? 01:04PM
8 various phases of it leading up leading to the actual 12:33PM 9 ratification whereby experts in that area of interest 12:33PM 10 agree on a certain standard 12:33PM 11 BY MR WONG: 12:33PM 12 Q And did you review the 802 IAB standard marked as 12:33PM 13 Exhibit 315 while you were working on the LLDP 12:34PM 14 project 12:34PM 15 A That's correct 12:34PM	8 BY MR WONG: 01:03PM 9 Q Welcome back from the break, Mr Patil 01:03PM 10 A Thank you 01:03PM 11 Q The Court Reporter has marked, during the break, 01:04PM 12 as Exhibit 316, a document that's been placed in front 01:04PM 13 of you 01:04PM 14 Do you see that? 01:04PM 15 A Yes 01:04PM
8 various phases of it leading up leading to the actual 12:33PM 9 ratification whereby experts in that area of interest 12:33PM 10 agree on a certain standard 12:33PM 11 BY MR WONG: 12:33PM 12 Q And did you review the 802 IAB standard marked as 12:33PM 13 Exhibit 315 while you were working on the LLDP 12:34PM 14 project 12:34PM 15 A That's correct 12:34PM 16 Q for Cisco? 12:34PM	8 BY MR WONG: 01:03PM 9 Q Welcome back from the break, Mr Patil 01:03PM 10 A Thank you 01:03PM 11 Q The Court Reporter has marked, during the break, 01:04PM 12 as Exhibit 316, a document that's been placed in front 01:04PM 13 of you 01:04PM 14 Do you see that? 01:04PM 15 A Yes 01:04PM 16 Q And I'll represent to you, Mr Patil, that this 01:04PM
8 various phases of it leading up leading to the actual 12:33PM 9 ratification whereby experts in that area of interest 12:33PM 10 agree on a certain standard 12:33PM 11 BY MR WONG: 12:33PM 12 Q And did you review the 802 IAB standard marked as 12:33PM 13 Exhibit 315 while you were working on the LLDP 12:34PM 14 project 12:34PM 15 A That's correct 12:34PM 16 Q for Cisco? 12:34PM 17 A yes 12:34PM	8 BY MR WONG: 01:03PM 9 Q Welcome back from the break, Mr Patil 01:03PM 10 A Thank you 01:03PM 11 Q The Court Reporter has marked, during the break, 01:04PM 12 as Exhibit 316, a document that's been placed in front 01:04PM 13 of you 01:04PM 14 Do you see that? 01:04PM 15 A Yes 01:04PM 16 Q And I'll represent to you, Mr Patil, that this 01:04PM 17 is a document that was provided to Arista's attorneys by 01:04PM
8 various phases of it leading up leading to the actual 12:33PM 9 ratification whereby experts in that area of interest 12:33PM 10 agree on a certain standard 12:33PM 11 BY MR WONG: 12:33PM 12 Q And did you review the 802 IAB standard marked as 12:33PM 13 Exhibit 315 while you were working on the LLDP 12:34PM 14 project 12:34PM 15 A That's correct 12:34PM 16 Q for Cisco? 12:34PM 17 A yes 12:34PM 18 Q Did you review the standard, or at least a draft 12:34PM	8 BY MR WONG: 01:03PM 9 Q Welcome back from the break, Mr Patil 01:03PM 10 A Thank you 01:03PM 11 Q The Court Reporter has marked, during the break, 01:04PM 12 as Exhibit 316, a document that's been placed in front 01:04PM 13 of you 01:04PM 14 Do you see that? 01:04PM 15 A Yes 01:04PM 16 Q And I'll represent to you, Mr Patil, that this 01:04PM 17 is a document that was provided to Arista's attorneys by 01:04PM 18 Cisco's attorneys, and it lists it includes a table 01:04PM
8 various phases of it leading up leading to the actual 12:33PM 9 ratification whereby experts in that area of interest 12:33PM 10 agree on a certain standard 12:33PM 11 BY MR WONG: 12:33PM 12 Q And did you review the 802 IAB standard marked as 12:33PM 13 Exhibit 315 while you were working on the LLDP 12:34PM 14 project 12:34PM 15 A That's correct 12:34PM 16 Q for Cisco? 12:34PM 17 A yes 12:34PM	8 BY MR WONG: 01:03PM 9 Q Welcome back from the break, Mr Patil 01:03PM 10 A Thank you 01:03PM 11 Q The Court Reporter has marked, during the break, 01:04PM 12 as Exhibit 316, a document that's been placed in front 01:04PM 13 of you 01:04PM 14 Do you see that? 01:04PM 15 A Yes 01:04PM 16 Q And I'll represent to you, Mr Patil, that this 01:04PM 17 is a document that was provided to Arista's attorneys by 01:04PM
8 various phases of it leading up leading to the actual 12:33PM 9 ratification whereby experts in that area of interest 12:33PM 10 agree on a certain standard 12:33PM 11 BY MR WONG: 12:33PM 12 Q And did you review the 802 IAB standard marked as 12:33PM 13 Exhibit 315 while you were working on the LLDP 12:34PM 14 project 12:34PM 15 A That's correct 12:34PM 16 Q for Cisco? 12:34PM 17 A yes 12:34PM 18 Q Did you review the standard, or at least a draft 12:34PM	8 BY MR WONG: 01:03PM 9 Q Welcome back from the break, Mr Patil 01:03PM 10 A Thank you 01:03PM 11 Q The Court Reporter has marked, during the break, 01:04PM 12 as Exhibit 316, a document that's been placed in front 01:04PM 13 of you 01:04PM 14 Do you see that? 01:04PM 15 A Yes 01:04PM 16 Q And I'll represent to you, Mr Patil, that this 01:04PM 17 is a document that was provided to Arista's attorneys by 01:04PM 18 Cisco's attorneys, and it lists it includes a table 01:04PM
8 various phases of it leading up leading to the actual 12:33PM 9 ratification whereby experts in that area of interest 12:33PM 10 agree on a certain standard 12:33PM 11 BY MR WONG: 12:33PM 12 Q And did you review the 802 IAB standard marked as 12:33PM 13 Exhibit 315 while you were working on the LLDP 12:34PM 14 project 12:34PM 15 A That's correct 12:34PM 16 Q for Cisco? 12:34PM 17 A yes 12:34PM 18 Q Did you review the standard, or at least a draft 12:34PM 19 of the IEEE LLDP standard, in the course of Phase 1 of 12:34PM	8 BY MR WONG: 01:03PM 9 Q Welcome back from the break, Mr Patil 01:03PM 10 A Thank you 01:03PM 11 Q The Court Reporter has marked, during the break, 01:04PM 12 as Exhibit 316, a document that's been placed in front 01:04PM 13 of you 01:04PM 14 Do you see that? 01:04PM 15 A Yes 01:04PM 16 Q And I'll represent to you, Mr Patil, that this 01:04PM 17 is a document that was provided to Arista's attorneys by 01:04PM 18 Cisco's attorneys, and it lists it includes a table 01:04PM 19 that has a list of commands on the left-side column 01:04PM
8 various phases of it leading up leading to the actual 12:33PM 9 ratification whereby experts in that area of interest 12:33PM 10 agree on a certain standard 12:33PM 11 BY MR WONG: 12:33PM 12 Q And did you review the 802 1AB standard marked as 12:33PM 13 Exhibit 315 while you were working on the LLDP 12:34PM 14 project 12:34PM 15 A That's correct 12:34PM 16 Q for Cisco? 12:34PM 17 A yes 12:34PM 18 Q Did you review the standard, or at least a draft 12:34PM 19 of the IEEE LLDP standard, in the course of Phase 1 of 12:34PM 20 the LLDP project? 12:34PM	8 BY MR WONG: 01:03PM 9 Q Welcome back from the break, Mr Patil 01:03PM 10 A Thank you 01:03PM 11 Q The Court Reporter has marked, during the break, 01:04PM 12 as Exhibit 316, a document that's been placed in front 01:04PM 13 of you 01:04PM 14 Do you see that? 01:04PM 15 A Yes 01:04PM 16 Q And I'll represent to you, Mr Patil, that this 01:04PM 17 is a document that was provided to Arista's attorneys by 01:04PM 18 Cisco's attorneys, and it lists it includes a table 01:04PM 19 that has a list of commands on the left-side column 01:04PM 20 Do you see that? 01:04PM
8 various phases of it leading up leading to the actual 12:33PM 9 ratification whereby experts in that area of interest 12:33PM 10 agree on a certain standard 12:33PM 11 BY MR WONG: 12:33PM 12 Q And did you review the 802 IAB standard marked as 12:33PM 13 Exhibit 315 while you were working on the LLDP 12:34PM 14 project 12:34PM 15 A That's correct 12:34PM 16 Q for Cisco? 12:34PM 17 A yes 12:34PM 18 Q Did you review the standard, or at least a draft 12:34PM 19 of the IEEE LLDP standard, in the course of Phase 1 of 12:34PM 20 the LLDP project? 12:34PM 21 A That's correct 12:34PM	8 BY MR WONG: 01:03PM 9 Q Welcome back from the break, Mr Patil 01:03PM 10 A Thank you 01:03PM 11 Q The Court Reporter has marked, during the break, 01:04PM 12 as Exhibit 316, a document that's been placed in front 01:04PM 13 of you 01:04PM 14 Do you see that? 01:04PM 15 A Yes 01:04PM 16 Q And I'll represent to you, Mr Patil, that this 01:04PM 17 is a document that was provided to Arista's attorneys by 01:04PM 18 Cisco's attorneys, and it lists it includes a table 01:04PM 19 that has a list of commands on the left-side column 01:04PM 20 Do you see that? 01:04PM 21 A Yes 01:04PM
8 various phases of it leading up leading to the actual 12:33PM 9 ratification whereby experts in that area of interest 12:33PM 10 agree on a certain standard 12:33PM 11 BY MR WONG: 12:33PM 12 Q And did you review the 802 IAB standard marked as 12:33PM 13 Exhibit 315 while you were working on the LLDP 12:34PM 14 project 12:34PM 15 A That's correct 12:34PM 16 Q for Cisco? 12:34PM 17 A yes 12:34PM 18 Q Did you review the standard, or at least a draft 12:34PM 19 of the IEEE LLDP standard, in the course of Phase 1 of 12:34PM 20 the LLDP project? 12:34PM 21 A That's correct 12:34PM 22 Q Do you recall reviewing the IEEE LLDP standard 12:34PM	8 BY MR WONG: 01:03PM 9 Q Welcome back from the break, Mr Patil 01:03PM 10 A Thank you 01:03PM 11 Q The Court Reporter has marked, during the break, 01:04PM 12 as Exhibit 316, a document that's been placed in front 01:04PM 13 of you 01:04PM 14 Do you see that? 01:04PM 15 A Yes 01:04PM 16 Q And I'll represent to you, Mr Patil, that this 01:04PM 17 is a document that was provided to Arista's attorneys by 01:04PM 18 Cisco's attorneys, and it lists it includes a table 01:04PM 19 that has a list of commands on the left-side column 01:04PM 20 Do you see that? 01:04PM 21 A Yes 01:04PM 22 Q Please take a moment, Mr Patil, and look at 01:04PM
8 various phases of it leading up leading to the actual 12:33PM 9 ratification whereby experts in that area of interest 12:33PM 10 agree on a certain standard 12:33PM 11 BY MR WONG: 12:33PM 12 Q And did you review the 802 IAB standard marked as 12:33PM 13 Exhibit 315 while you were working on the LLDP 12:34PM 14 project 12:34PM 15 A That's correct 12:34PM 16 Q for Cisco? 12:34PM 17 A yes 12:34PM 18 Q Did you review the standard, or at least a draft 12:34PM 19 of the IEEE LLDP standard, in the course of Phase 1 of 12:34PM 20 the LLDP project? 12:34PM 21 A That's correct 12:34PM 22 Q Do you recall reviewing the IEEE LLDP standard 12:34PM 23 during the 2005 time period? 12:34PM	8 BY MR WONG: 01:03PM 9 Q Welcome back from the break, Mr Patil 01:03PM 10 A Thank you 01:03PM 11 Q The Court Reporter has marked, during the break, 01:04PM 12 as Exhibit 316, a document that's been placed in front 01:04PM 13 of you 01:04PM 14 Do you see that? 01:04PM 15 A Yes 01:04PM 16 Q And I'll represent to you, Mr Patil, that this 01:04PM 17 is a document that was provided to Arista's attorneys by 01:04PM 18 Cisco's attorneys, and it lists it includes a table 01:04PM 19 that has a list of commands on the left-side column 01:04PM 20 Do you see that? 01:04PM 21 A Yes 01:04PM 22 Q Please take a moment, Mr Patil, and look at 01:04PM 23 Exhibit 316 and, in particular, the commands that are 01:04PM

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 82 of 122 CONFIDENTIAL

1 A Okay. Yeah, I'm done. 01:04PM	1 mentioned, did the LLDP project involve implementing 01:07PM
2 Q Do you understand that Cisco has identified you 01:04PM	2 LLDP on those other operating systems? 01:07PM
3 as the author or originator of the commands lifted 01:04PM	3 A I was not aware of that 01:07PM
4 listed on the left-side column of Exhibit 316? 01:05PM	4 Q Okay So your personal involvement in Phase 1 of 01:07PM
5 A Yes. 01:05PM	5 the LLDP project focused only on implementing LLDP for 01:07PM
6 Q Okay. Now, are these commands listed in 01:05PM	6 Cisco IOS; correct? 01:08PM
7 Exhibit 316 associated with the LLDP project that we 01:05PM	7 A Mm-luum Yeah 01:08PM
8 have been talking about this morning? 01:05PM	8 Q We mentioned strike that 01:08PM
9 A Yes. 01:05PM	9 You mentioned the different stages that were part 01:08PM
10 Q Were these commands added to Cisco IOS as part of 01:05Pl	VI 10 of Phase 1 of the LLDP project 01:08PM
11 Phase I of the LLDP project? 01:05PM	11 Do you remember that? 01:08PM
12 A Yes. That's correct, yes. 01:05PM	12 A Yes 01:08PM
13 Q Okay. You can set that aside for now, Mr. Patil. 01:05PM	13 Q Can you let me know strike that 01:08PM
We were talking before the break about how you 01:05PM	14 Can you list for me again the stages in the order 01 08PM
15 became involved in the LLDP project. 01:05PM	15 that they are handled? 01:08PM
16 Do you remember that? 01:05PM	16 MR CANNON: Objection; asked and answered 01:08PM
17 A Mm-hmm. 01:05PM	17 THE WITNESS: It's market analysis, slash, 01:08PM
18 Q Were there particular Cisco products that the 01:05PM	18 requirements as Stage 1 Architecture would be Stage 2 01:08PM
19 LLDP implementation was going to apply to? 01:05PM	19 Design would be Stage 3, and implementation and testing 01:08PM
20 A Yes. 01:05PM	20 would be Stages 4 and 5 01:08PM
21 Q Okay. And I'm asking at the time that you 01:05PM	21 BY MR WONG: 01:08PM
22 started working on the LLDP project. 01:05PM	22 Q Testing is the fifth stage; correct? 01:08PM
23 Do you understand? 01:05PM	23 A Yes 01:08PM
24 A Mm-hmm. 01:05PM	24 Q And it would go in that order, from Stage I to 01:08PM
25 Q What Cisco products were targeted for the LLDP 01:05PM Page 122	25 Stage 2 to Stage 3 to Stage 4 to Stage 5; correct? 01:09PM Page 124
I implementation at the start of Phase I of the project? 01:06PM	1 A Technically, yes, but in the interest of time, 01:09PM
2 A The initial rollout was for the Catalyst family 01:06PM	2 some of these phases will stages will overlap. 01:09PM
3 of enterprise switches, the Catalyst 6500, the 01:06PM	3 Q How long did Phase 1 of the LLDP project take to 01:09PM
4 Catalyst 3000 series was soon to follow after that and, 01 06PM	4 go from Stage 1 to Stage 5? 01:09PM
5 later on, other platforms, including the SR1K, it opted 01:06PM	5 A I would say Stage 1 to Stage 5, roughly six 01:09PM
6 the standard 01:06PM	6 months. 01:09PM
7 Q When you say "later on, other platforms," what do 01:06PM	7 Q So it took six months to go from the 01:09PM
8 you mean by "later on"? 01:06PM	8 marketing/requirements stage all the way through the 01:09PM
9 A "Later on" as in the 2010-'11 time frame, yeah 01:06PM	9 fifth testing stage for for Phase 1; correct? 01:09PM
10 Q Okay So initially in 2005, though, what were 01:06PM	10 A Yes. 01:09PM
11 the targeted Cisco products for the LLDP implementation? 01:06PM	11 Q Which of the five stages consumed the most time 01:09PM
12 A The Catalyst switches 01:06PM	12 out of those six months? 01:09PM
13 Q And in terms of the operating system that the 01:06PM	13 A Architecture and design. 01:10PM
14 LLDP implementation would apply to, was it just Cisco 01:07PM	14 Q Oh, Stages 2 and 3? 01:10PM
15 IOS? 01 07PM	15 A Yes. 01:10PM
16 A Yes 01:07PM	16 Q Did either architecture or design take more time 01:10PM
17 Q Okay You are aware of other operating systems 01:07PM	17 than the other? 01:10PM
18 that are used by other Cisco products? 01:07PM	18 A I would say architecture took took more than a 01:10PM
19 A Lam 01:07PM	19 couple couple months to firm up. 01:10PM
20 Q What are the other operating systems that you are 01:07PM	20 Q So how many months or weeks strike that. 01:10PM
21 aware of that are used by other Cisco products? 01:07PM	How long, approximately, did it take for the 01:10PM
22 A The Cisco XR, Cisco ENA I think it's been 01:07PM	22 design stage of Phase 1 of the LLDP project to be 01:10PM
23 renamed the NX-OS There's also what do they call 01:07PM	23 completed? 01:10PM
24 the software router, but those are the main ones 01:07PM	24 A About three and a half to four weeks. 01:10PM
25 Q And those other operating systems that you just 01:07PM Page 123	25 Q And what is part of the design stage for Phase 1 01:10PM Page 125
1 agc 123	22 (Pages 122 - 125)

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 83 of 122 CONFIDENTIAL

1 my reviewers' discussion, a good, I would say I mean, 01:16PM	1 proprietary protocol like CDP? 01:19PM
2 if you just add up all the time phases, maybe three man 01:16PM	2 MR. CANNON: Objection; vague, lacks foundation, 01:191
3 days to four man days 01:16PM	3 and calls for improper opinion testimony. 01:19PM
4 BY MR WONG: 01:16PM	4 MR. WONG: Let me let me take a step back 01:19PM
5 Q And when you say "man days," you mean 9:00 to 01:16PM	5 here. 01:19PM
6 5:00? 01:16PM	6 Q You are you are familiar with CDP; correct? 01:19PM
7 A Yes 01:16PM	7 A Yes. 01:19PM
8 Q Now, you testified, before the break, that you 01:16PM	8 Q And you you were familiar with CDP from your 01:19PN
9 had reviewed the IEEE LLDP standard that we marked as 01:17PM	9 time working at Cisco; correct? 01:19PM
10 Exhibit 315 sometime in 2005 01:17PM	10 A Yes. Yes. 01:19PM
11 Do you remember that testimony? 01:17PM	11 Q What type of experience did you have working with 01:19Pt
12 A Yes 01:17PM	12 CDP from your employment at Cisco? 01:19PM
13 Q During what stage of Phase 1 of the LLDP project 01:17PM	13 A 1 before getting into this project, I didn't 01:19PM
14 did you review the IEEE LLDP standard? 01:17PM	14 have a lot of opportunity or need to work with CDP. 1 01:19PM
15 A Mainly in the market analysis and architecture 01:17PM	15 know that it existed, and after I got tasked with this, 01:19PM
16 phases 01:17PM	16 I I I looked at it and got deeper knowledge of it 01:19PM
17 Q So those would be Phases 1 and excuse me, 01:17PM	17 and understood that it is a proprietary protocol and we 01:19PM
18 those would be Stages 1 and 2? 01:17PM	18 are standardizing it in LLDP and yeah. 01:20PM
19 A Yes 01:17PM	19 Q And so during what stage of the five stages that 01:20PM
20 Q And did you review the IEEE LLDP standard from 01:17PM	20 we have been talking about for Phase 1 of the LLDP 01:20PM
21 front to back? 01:17PM	21 project did you look at Cisco's implementation of CDP? 01:20PM
22 A I made a full attempt to do that, yes I don't 01:17PM	22 A The first three. 01:20PM
23 know if I reviewed every word of it, but 01:17PM	23 Q And what did you what did you review to get up 01:20PM
24 Q And you made a full attempt to review the 01:17PM	24 to speed on Cisco's implementation of CDP? 01:20PM
25 complete IEEE LLDP standard before moving on to the 01:17PM	25 A I I looked at the code. I looked at the 01:20PM
Page 130	Page 132
I design stage of Phase I of the LLDP project; correct? 01:17PM	1 specifications, and I probably discussed with the 01:20PM
2 MR CANNON: Objection; vague 01:18PM	2 original developer for it, and that's about what I must 01:20PM
3 THE WITNESS: Yes I mean, I didn't read the 01:18PM	3 have done, yeah. 01:20PM
4 each cell of the table, but from a general understanding 01:18PM	4 Q Is LLDP based at all on CDP, to your knowledge? 01:20PM
5 and the main concepts, yes 01:18PM	5 MR. CANNON: Objection; vague, lacks foundation, 01:20Pi
6 BY MR WONG: 01:18PM	6 calls for improper opinion testimony. 01:21PM
7 Q Why was it important to review as much of the 01:18PM	7 THE WITNESS: It's very similar, and I it's 01:21PM
8 1EEE LLDP standard as possible before moving on to the 01:18PM	8 certainly heavily influenced by CDP, but I I I 01:21PM
9 design stage of Phase 1 of the LLDP project? 01:18PM	9 would be wrong to say that it is based on CDP. 01:21PM
10 MR CANNON: Objection; vague, assumes facts not 01:18PM	10 BY MR. WONG: 01:21PM
11 in evidence, mischaracterizes testimony 01:18PM	
12 THE WITNESS: Because we wanted to do a very 01:18PM	12 to your knowledge? 01:21PM
13 solid joh of the architecture, and, fundamentally, we 01:18PM	MR. CANNON: Objection; vague, lacks foundation, 01:21PM
14 were, from an architecture standpoint, trying to 01:18PM	14 and calls for improper opinion testimony. 01:21PM
15 understand how they should co-exist with CDP 01:18PM	15 THE WITNESS: The mechanics of it, meaning we 01:21PM
16 BY MR WONG; 01:18PM	16 send it there is a frequency of keep-alive messages. 01:21PM
17 Q And what is "CDP"? 01:18PM	17 There is a frequency of initial discovery as opposed to 01:21PM
1	
18 A Oh, Cisco Discovery Protocol 01:18PM	18 a push button, one point say message saying, hey, I'm 01:21PM
18 A Oh, Cisco Discovery Protocol 01:18PM 19 Q And was Cisco Discovery Protocol an 01:18PM	
-	18 a push button, one point say message saying, hey, I'm 01:21PM
19 Q And was Cisco Discovery Protocol an 01:18PM 20 industry-standardized protocol? 01:19PM	18 a push button, one point say message saying, hey, I'm 01:21PM 19 alive, and until I send another message that I'm not 01:21PM
19 Q And was Cisco Discovery Protocol an 01:18PM 20 industry-standardized protocol? 01:19PM 21 A No 01:19PM	18 a push button, one point say message saying, hey, I'm 01:21PM 19 alive, and until I send another message that I'm not 01:21PM 20 alive, don't even bother. 01:21PM
19 Q And was Cisco Discovery Protocol an 01:18PM 20 industry-standardized protocol? 01:19PM 21 A No 01:19PM 22 Q What was it, then? 01:19PM	18 a push button, one point say message saying, hey, I'm 01:21PM 19 alive, and until I send another message that I'm not 01:21PM 20 alive, don't even bother. 01:21PM 21 There are various paradigms of how this can be 01:21PM
19 Q And was Cisco Discovery Protocol an 01:18PM 20 industry-standardized protocol? 01:19PM 21 A No 01:19PM 22 Q What was it, then? 01:19PM 23 A Cisco proprietary discovery protocol 01:19PM	18 a push button, one point say message saying, hey, I'm 01:21PM 19 alive, and until I send another message that I'm not 01:21PM 20 alive, don't even bother. 01:21PM 21 There are various paradigms of how this can be 01:21PM 22 done, right? So in that respect, it's it's similar, 01:21PM
19 Q And was Cisco Discovery Protocol an 01:18PM 20 industry-standardized protocol? 01:19PM 21 A No 01:19PM 22 Q What was it, then? 01:19PM 23 A Cisco proprietary discovery protocol 01:19PM 24 Q What's the difference between a 01:19PM	18 a push button, one point say message saying, hey, I'm 01:21PM 19 alive, and until I send another message that I'm not 01:21PM 20 alive, don't even bother. 01:21PM 21 There are various paradigms of how this can be 01:21PM 22 done, right? So in that respect, it's it's similar, 01:21PM 23 and that's how it influences the the standard 01:22PM

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 84 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 84 of 122 CONFIDENTIAL

1 Q Did you come up with the term "neighbors" in the 01:32PM 1 and there is no right answer for 2 sense of discovery? 01:32PM 2 opinion is a yes.	
	this, but my personal 01:34PM
	01;34PM
3 A No. 01:32PM 3 BY MR. WONG:	01:34PM
4 Q Where did the term "neighbors" come from as used 01:32PM 4 Q And why is that important	t, Mr. Patil? 01:34PM
5 in the sense of discovery? 01:32PM 5 MR. CANNON: Same obj	jections. 01:34PM
6 MR. CANNON: Objection; lacks foundation. 01:32PM 6 THE WITNESS: My person	onal opinion is that devices 01:34PM
7 BY MR. WONG: 01:32PM 7 should freely discover each other	er and collaborate to 01:35PM
8 Q If you know. 01:32PM 8 bring about functionality, and the	hat's the reason they 01:35PM
9 A More from intuition, more from just being able to 01:32PM 9 should be there should be a st	tandard. 01:35PM
10 communicate it correctly. 01:32PM 10 BY MR. WONG:	01:35PM
	s should be able to freely 01:35PM
12 Communicate it directly to who? 01:32PM 12 discover each other, you are reference.	Ferring to devices from 01:35PM
13 A The reviewers, the the reviewers and people 01:32PM 13 different vendors; correct?	01:35PM
14 who will give me suggestions on where what what to 01:32PM 14 A That's correct.	01:35PM
	a can have devices from 01:35PM
16 Q Why is it that a non-Cisco device cannot interact 01:33PM 16 different vendors to freely disco	
17 with a Cisco device in the process of discovering each 01:33PM 17 say, would be to have a standard	•
	; vague, lacks foundation, 01:35PN
19 Exhibit 317? 01:33PM 19 calls for improper opinion testin	· -
20 MR. CANNON: Objection; vague, incomplete 01:33PM 20 THE WITNESS: That's con	•
21 hypothetical, calls for improper opinion testimony, 01:33PM 21 BY MR. WONG:	01:35PM
22 lacks foundation. 01:33PM 22 Q And, finally, the last senter	
23 THE WITNESS: Because the existing protocols back 01:33PM 23 paragraph, top of page 3 of Exhi	
24 then were proprietary. Cisco had its own proprietary 01:33PM 24 standardized by IEEE as part of	
25 protocol for discovery. Model [phonetic] had its own Page 142 25 implementation will be based on	Page 144
1 proprietary protocol for discovery, and they don't talk 01:33PM 1 Do you see that?	01:35PM
2 to each other. That's what I meant. 01:33PM 2 A Yes	01:35PM
3 BY MR. WONG: 01:33PM 3 Q Right	01:35PM
4 Q And the next sentence in this paragraph, you 01:33PM 4 This 802 1AB that you are referr	ring to in 01:35PM
5 wrote: "Thus there is a need for Cisco devices to 01:33PM 5 Exhibit 317 is the same standard mark	ked as Exhibit 315 01:36PM
6 comply with an industry standard for network topology 01:33PM 6 here; correct?	01:36PM
7 discovery." 01:33PM 7 A That's correct	01:36PM
8 Do you see that? 01:33PM 8 Q Okay And is it correct that Cis	sco's 01:36PM
9 A Yes. 01:33PM 9 implementation of LLDP was based to	upon the IEEE standard 01:36PM
10 Q Why is there a need for Cisco devices to comply 01:33PM 10 marked as Exhibit 315?	01:36PM
11 with an industry standard for network topology 01:33PM 11 MR CANNON: Objection; vagu	ue 01:36PM
12 discovery, as you wrote in Exhibit 317? 01:34PM 12 THE WITNESS: It is based upon	
MR. CANNON: Objection; vague, lacks foundation, 01:34PM 13 BY MR WONG:	01:36PM
14 calls for improper opinion testimony. 01:34PM 14 Q And that was intentional; correct	
THE WITNESS: The answer is in the very previous 01:34PM 15 MR CANNON: Objection; vagu	
16 sentence for that, yeah. Basically says that a 01:34PM 16 MR WONG: Let me rephrase the	
17 non-Cisco device cannot interact with a Cisco device in 01:34PM 17 Q When you were working on imp	·
TO THE DIOCESS OF UISCOVERY. U1.34 FIVE 18 CISCO'S devices, voil intended for the	-
18 the process of discovery. 01:34PM 18 Cisco's devices, you intended for the second of the second	
19 BY MR. WONG: 01:34PM 19 follow the IEEE standard marked as E	
19 BY MR. WONG: 01:34PM 19 follow the IEEE standard marked as E 20 Q Is it important for a non-Cisco device to be able 01:34PM 20 MR CANNON: Objection; vagu	
19 BY MR. WONG: 01:34PM 19 follow the IEEE standard marked as E 20 Q Is it important for a non-Cisco device to be able 01:34PM 21 to interact with a Cisco device in the process of 01:34PM 21 THE WITNESS: Correct	01:36PM
19 BY MR. WONG: 01:34PM 19 follow the IEEE standard marked as E 20 Q Is it important for a non-Cisco device to be able 01:34PM 21 to interact with a Cisco device in the process of 01:34PM 22 discovering each other as neighbors? 01:34PM 19 follow the IEEE standard marked as E 20 MR CANNON: Objection; vagu 21 THE WITNESS: Correct 22 BY MR WONG:	01:36PM 01:36PM
19 BY MR. WONG: 01:34PM 19 follow the IEEE standard marked as E 20 Q Is it important for a non-Cisco device to be able 01:34PM 21 to interact with a Cisco device in the process of 01:34PM 22 discovering each other as neighbors? 01:34PM 19 follow the IEEE standard marked as E 20 MR CANNON: Objection; vague 21 THE WITNESS: Correct 22 BY MR WONG: 23 MR. CANNON: Objection; vague, lacks foundation, 01:34PM 23 Q You intended Cisco's implement	01:36PM 01:36PM ntation of LLDP to be 01:36PM
19 BY MR. WONG: 01:34PM 19 follow the IEEE standard marked as E 20 Q Is it important for a non-Cisco device to be able 01:34PM 21 to interact with a Cisco device in the process of 01:34PM 22 discovering each other as neighbors? 01:34PM 19 follow the IEEE standard marked as E 20 MR CANNON: Objection; vagu 21 THE WITNESS: Correct 22 BY MR WONG:	01:36PM 01:36PM ntation of LLDP to be 01:36PM

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 85 of 122 CONFIDENTIAL

CONT	
1 A Compliant with, yes 01:37PM	1 that with one with just one vendor's equipment just 01:40PM
2 Q In the third paragraph on page 3 of Exhibit 317, 01:37PM	2 to make SNMP work, and that level of interoperability at 01:40PM
3 first sentence says, "LLDP facilitates the use of 01:37PM	3 the SNMP level can be very handy in in in larger 01:40PM
4 standard management tools such as SNMP in a multi-vendor 01:37PM	4 networks. 01:40PM
5 network " 01:37PM	5 BY MR. WONG: 01:40PM
6 Do you see that? 01:37PM	6 Q If there wasn't the standardization for SNMP 01:40PM
	7 inquiries and you had a multivendor network, would you 01:40PM
7 A Yes 01:37PM	
8 Q What do you mean by that statement? 01:37PM	8 have to write different SNMP inquiries for each network? 01:40PM
9 A So the answer to that might get a little 01:37PM	9 MR. CANNON: Objection; vague, incomplete 01:41PM
10 technical, but I'll say that anyway 01:37PM	10 hypothetical, lacks foundation, calls for improper 01:41PM
Part of the IEEE standard is also a specification 01:37PM	11 opinion testimony. 01:41PM
12 of topology Management Information Base, which can be 01:37PM	THE WITNESS: If that were the case, then then 01:41PM
13 developed to make SNMP queries, so if the Management 01:37PM	13 we are we are essentially talking of vendor-specific 01:41PM
14 Information Base can be standard across all vendors, 01:37PM	14 Management Information Bases, and that would, at the 01:41PM
15 that means that the SNMP queries will apply universally 01:38PM	15 very least, at least require some level of nonstandard 01:41PM
16 across all vendors, and that's the the added 01:38PM	16 or tailored queries for each vendor. 01:41PM
17 advantage of standardizing this 01:38PM	17 BY MR. WONG: 01:41PM
18 Q And what is "SNMP"? 01:38PM	18 Q If you turn back to Exhibit 315, it's the IEEE 01:42PM
19 A It it stands for Simple Network Management 01:38PM	19 standard for LLDP. 01:42PM
20 Protocol 01:38PM	20 A Yes. 01:42PM
21 Q And how was what's the function or purpose of 01:38PM	21 Q Now, LLDP is a defined term in the IEEE standard; 01:42PM
22 SNMP? 01:38PM	22 correct? 01:42PM
23 MR CANNON: Objection; vague 01:38PM	23 A Yes. 01:42PM
24 THE WITNESS: The purpose of SNMP is to, 01:38PM	24 Q In fact, if you look to page 5 of and I'm 01:42PM
25 essentially, allow network administrators and engineers 01:38PM	25 looking pointing to page 5 at the bottom of the page 01:42PM
Page 146	Page 148
1 and developers to be able to create network information 01:38PM	1 of Exhibit 315, there is a section on the top that it 01:42PM
2 and send send trap what are called technically 01:38PM	2 says "Definitions and numerical representation" 01:42PM
3 called "traps," SNMP traps, to signal significant events 01:39PM	3 Do you see that? 01:42PM
4 in a network. And it's a protocol that persists network 01:39PM	4 A Yes 01:42PM
5 information in a in a place called MIB, Management 01:39PM	5 Q And entry 3 1 6 01:42 PM
6 Information Base, and then provides a user interface 01:39PM	6 A Yes 01:42PM
7 to to query that data. 01:39PM	7 Q defines Link Layer Discovery Protocol and, in 01:42PM
8 BY MR. WONG: 01:39PM	8 parentheses, LLDP 01:42PM
9 Q And I think you said that if the Management 01:39PM	***************************************
	,
10 Information Base, or MIB, can be standard across all 01:39PM	10 A Mm-himm 01;42PM
11 vendors, that means that the SNMP inquiries [sic] will 01:39PM 12 apply universally across all vendors; right? 01:39PM	11 Q So you were aware that LLDP was a defined acronym 01:42PM
,	12 in the actual IEEE standard while you were working on 01:43PM
13 A Yes. 01:39PM	13 Phase I of the LLDP project; correct? 01:43PM
14 Q So that means that a network administrator and 01:39PM	14 MR CANNON: Objection: vague 01:43PM
15 engineers can use the same SNMP inquiries for different 01:39PM	
16 vendor products; correct? 01:39PM	16 BY MR WONG: 01:43PM
17 A Correct, if they are connect interconnected. 01:39PM	17 Q If you turn the page to page 6 01:43PM
18 Q And what's the advantage of what's the 01:39PM	18 A Mm-hmm 01:43PM
19 advantage to a network administrator to be able to use 01:40PM	19 Q entry 3 1 21 01:43PM
20 the same SNMP inquiries for different vendor products? 01:40PM	
21 MR. CANNON: Objection; vague, lacks foundation, 01:40PM	
22 calls for improper opinion testimony. 01:40PM	22 Q It says, "type, length, value (TLV)" 01:43PM
THE WITNESS: If a certain topology or deployment 01:40PM	23 Do you see that? 01:43PM
24 includes multiple inputs equipment from multiple 01:40PM	24 A Yes 01:43PM
25 vendors, they don't have to tear that apart and replace 01:40PM	25 Q You were aware, by Stage 1 or at least Stage 2 of 01:43PM
Page 147	Page 149
	20 (D 146 140)

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 86 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 86 of 122 CONFIDENTIAL

1 Phase 1 of the LLDP project, that the IEEE standard for 01:43PM	
	M 1 that? 01:45PM
2 LLDP defined the acronym TLV; correct? 01:43PM	2 MR. WONG: I'll tell you once I see it. Yes, 01:45PM
3 MR. CANNON: Objection; vague, mischaracterizes 01:431	PM 3 page 39. Control number is ends in 17959. 01:46PM
4 the document. 01:43PM	4 Q Are you there? 01:46PM
5 THE WITNESS: Yes. 01:43PM	5 A Yeah, I am. 01:46PM
6 BY MR. WONG: 01:43PM	6 Q So Section 10.3.4 is called "Too many neighbors." 01:46PM
7 Q In fact, on page 7 of Exhibit 315, at the very 01:43PM	7 Do you see that? 01:46PM
8 top, it's a section called "Acronyms and abbreviations"; 01:43PM	8 A Mm-hmm. 01:46PM
9 correct? 01:43PM	9 Q Now, we were talking earlier about the use of the 01:46PM
0 A Yes. 01:43PM	10 word "neighbors" in the functional specification that 01:46PM
1 Q And both LLDP and TLV are listed as defined 01:43PM	
2 acronyms within the IEEE LLDP standard; right? 01:43PM	12 A Yes. 01:46PM
3 A Yes. 01:44PM	13 Q right? 01:46PM
4 Q And you were aware of that before you began the 01:44PM	
5 design stage for Phase 1 of the LLDP project; right? 01:44PM	15 Q Is this use of the word "neighbors" here in the 01:46PM
6 A Yes. 01:44PM	16 IEEE specification the the same use of the word 01:46PM
7 Q And you were aware of that during the design 01:44PM	17 "neighbors" that you were using in the functional 01:46PM
8 period for the LLDP project; correct? 01:44PM	18 specification? 01:46PM
9 A Yes. 01:44PM	19 MR. CANNON: Objection; vague. 01:46PM
0 Q And if you look at Exhibit 316, which is this 01:44PM	20 THE WITNESS: I was I read this specification 01:46PM
1 list of commands? 01:44PM	21 thoroughly, so 1 yeah, I was influenced by some of 01:46PM
2 A Okay. 01:44PM	22 the language in here. 01:47PM
3 Q Are you there? 01:44PM	23 BY MR, WONG: 01:47PM
4 Each of the commands associated with you include 01:44PM	
5 the acronym LLDP. 01:44PM	25 terminology relevant to LLDP by reading the IEEE 01:47PM
Page 150	
l Do you see that? 01:44PM	1 standard on LLDP; right? 01:47PM
2 A Yes 01:44PM	2 MR. CANNON: Objection; vague. 01:47PM
Q That LLDP is the same LLDP that is defined within 01:44PM	3 THE WITNESS: Yes. 01:47PM
the IEEE LLDP standard; right? 01:44PM	4 BY MR. WONG: 01:47PM
MR CANNON: Objection; vague 01:44PM	5 Q And in particular here, you were aware that the 01:47PM
THE WITNESS: It's yeah, it it refers to 01:44PM	6 term "neighbors" was used in the IEEE LLDP standard; 01:47P
7 the Link Layer Discovery Protocol 01:44PM	7 right? 01:47PM
B BY MR WONG: 01:45PM	8 A Mm-hmm. 01:47PM
Q I mean, that's the same acronym that appears here 01:45PM	9 MR. CANNON: Objection; vague. 01:47PM
on page 7 of Exhibit 315; right? Under "Acronyms and 01:45PM	10 BY MR. WONG: 01:47PM
abbreviatious" within the IEEE standard; correct? 01:45PM	11 Q Oh, I'm sorry, can you let me let me ask 01:47PM
MR CANNON: Objection; documents speak for 01:45PM	12 the question one more time. 01:47PM
themselves 01:45PM	And in particular here, Section 10.3.4 of 01:47PM
THE WITNESS: Yes 01:45PM	14 Exhibit 315, you were aware that the term "neighbors" 01:47PM
BY MR WONG: 01:45PM	15 was used in the IEEE LLDP standard, yes? 01:47PM
Q And your choice of LLDP in each of the commands 01:45PM	16 MR. CANNON: Objection; vague. 01:47PM
listed on Exhibit 316, that was intentionally meant to 01:45PM	17 THE WITNESS: Yes. 01:47PM
month of the man man month of the control of	18 BY MR. WONG: 01:47PM
refer to the LLDP acronym within the IEEE standard; 01:45PM	19 Q Can you turn to page or Section 5.2, please, 01:48PM
refer to the LLDP acronym within the IEEE standard; 01:45PM	
refer to the LLDP acronym within the IEEE standard; 01:45PM right? 01:45PM	20 of Exhibit 315, and that is page 8. 01:48PM
refer to the LLDP acronym within the IEEE standard; 01:45PM right? 01:45PM MR CANNON: Objection; vague 01:45PM	20 of Exhibit 315, and that is page 8. 01:48PM 21 Are you there? 01:48PM
refer to the LLDP acronym within the IEEE standard; 01:45PM right? 01:45PM MR CANNON: Objection; vague 01:45PM THE WITNESS: Yes 01:45PM	21 Are you there? 01:48PM
refer to the LLDP acronym within the IEEE standard; 01:45PM right? 01:45PM MR CANNON: Objection; vague 01:45PM THE WITNESS: Yes 01:45PM BY MR WONG: 01:45PM	21 Are you there? 01:48PM 22 A Yes. 01:48PM
refer to the LLDP acronym within the IEEE standard; 01:45PM right? 01:45PM MR CANNON: Objection; vague 01:45PM THE WITNESS: Yes 01:45PM BY MR WONG: 01:45PM Q If you look at Section 10 3 4 of Exhibit 315 01:45PM	21 Are you there? 01:48PM 22 A Yes. 01:48PM 23 Q Section 5.2 on page 8 of Exhibit 315 says 01:48PM
refer to the LLDP acronym within the IEEE standard; 01:45PM right? 01:45PM MR CANNON: Objection; vague 01:45PM THE WITNESS: Yes 01:45PM BY MR WONG: 01:45PM	21 Are you there? 01:48PM 22 A Yes. 01:48PM

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 87 of 122 CONFIDENTIAL

1 A Yes 01:48PM	1 Q So the LLDP implementation that you worked on at 01:50P.
2 Q And under that, it says, "A system for which 01:48PM	2 Cisco and, in particular, Phase 1 supported a 01:50PM
3 conformance to this standard is claimed shall, for all 01:48PM	3 transmit-only operating mode? 01:50PM
4 ports for which support is claimed, include the 01:48PM	4 A Yes. I don't recall the I don't remember it 01:51PM
5 following capabilities," and then it lists items a 01:48PM	5 very clearly, but, yes. 01:51PM
6 through k 01:48PM	6 Q Okay. And did it also support a receive only 01:51PM
7 Do you see that? 01:48PM	7 excuse me. 01:51PM
8 A Yes 01:48PM	8 Did it also support a receive-only operating 01:51PM
9 MR CANNON: Objection; mischaracterizes the 01:48PM	9 mode? 01:51PM
10 document 01:48PM	10 MR. CANNON: Objection; vague, lacks foundation. 01:51Pi
11 BY MR WONG: 01:48PM	11 THE WITNESS: Let me take a moment. Yes. 01:51PM
12 Q Did I read that correctly, Mr Patil? 01:48PM	12 BY MR. WONG: 01:51PM
13 MR CANNON: Objection; mischaracterizes the 01:48PM	13 Q And did it also support a transmit and receive 01:51PM
14 document 01:48PM	14 operating mode? 01:51PM
15 THE WITNESS: You did 01:48PM	, , ,
16 BY MR WONG: 01:48PM	16 THE WITNESS: Yes. 01:51PM
17 Q And did the Cisco products for which you worked 01:49PM	17 BY MR. WONG: 01:51PM
18 on the LLDP implementation conform to the standard 01:49PM	18 Q And each of those features that we just talked 01:51PM
19 marked as Exhibit 315? 01:49PM	19 about, those were implemented as part of Phase 1 of the 01:51PM
MR CANNON: Objection; vague, lacks foundation, 01:49PM	20 LLDP project that you worked on, Mr. Patil? 01:51PM
21 calls for improper opinion testimony 01:49PM	21 MR. CANNON: Objection; vague. 01:51PM
22 MR WONG: Let me rephrase the question 01:49PM	22 THE WITNESS: Yes. 01:51PM
23 Q Were the required capabilities listed in 01:49PM	23 BY MR. WONG: 01:51PM
24 Section 5 2 of Exhibit 315 implemented when you did the 01:49PM	24 Q If you turn to page 43 of Exhibit 315 let me 01:52PM
25 LLDP implementation for Cisco's products? 01:49PM	25 know when you are there. 01:52PM
Page 154	Page 156
1 MR CANNON: Objection; vague, compound, lacks 01:49PM	1 A Yes 01:52PM
2 foundation, and calls for improper opinion testimony 01:49PM	2 Q section 10 5 2 is called "Statistical 01:52PM
3 THE WITNESS: I don't know how many are specific 01:49PM	3 counters " 01:52PM
4 deal with are implemented, but the focus was to be as 01:49PM	4 Do you see that? 01:52PM
5 compliant as possible 01:49PM	5 A Yes 01:52PM
6 BY MR WONG: 01:49PM	6 Q And, under that, it says, "Statistical counters 01:52PM
7 Q If you look at subsection i under Section 5 2 01:49PM	7 shall be provided to accumulate operational statistics 01:52PM
8 A Yes 01:50PM	8 on a per-port basis " 01:52PM
9 Q it says, "The protocol shall conform to the 01:50PM	9 Do you see that? 01:52PM
., ., ., ., ., ., ., ., ., ., ., ., ., .	
10 specifications for all Clause 10 subclauses indicated in 01:50PM	10 A Yes 01:52PM
11 Table 10-1 for the particular operating mode," and then 01:50PM	11 Q Is it your understanding that the support of 01:52PM
12 in parentheses it has "trausmit only, receive only, or 01:50PM	12 statistical counters is required by the IEEE LLDP 01;52PM
13 transmit and receive," close parentheses, "being 01:50PM	13 standard? 01:52PM
I4 implemented " 01:50PM	14 MR CANNON: Objection; vague, lacks foundation, 01:52PM
15 Do you see that? 01:50PM	15 calls for improper opinion testimony 01:52PM
16 A Yes 01:50PM	16 THE WITNESS: Can you repeat the question again? 01:52PM
17 Q Did I read that correctly? 01;50PM	17 MR WONG: Sure 01:52PM
18 A Yes 01:50PM	I8 Q Is it your understanding that providing 01:52PM
19 Q Did the LLDP implementation that you worked on at 01:50PM	19 statistical counters is a requirement of complying with 01:52PM
20 Cisco include this capability described by subsection i 01;50PM	20 the IEEE LLDP standard? 01:53PM
	21 MR CANNON: Same objections 01:53PM
21 under Section 5 2? 01:50PM	21 MR CANNON: Same objections
21 under Section 5 2? 01:50PM 22 MR CANNON: Objection; vague, lacks foundation, 01:50PM	22 THE WITNESS: Yes 01:53PM
21 under Section 5 2? 01:50PM 22 MR CANNON: Objection; vague, lacks foundation, 01:50PM 23 calls for improper opinion testimony 01:50PM	22 THE WITNESS: Yes 01:53PM 23 BY MR WONG: 01:53PM
21 under Section 5 2? 01:50PM 22 MR CANNON: Objection; vague, lacks foundation, 01:50PM 23 calls for improper opinion testimony 01:50PM	22 THE WITNESS: Yes 01:53PM 23 BY MR WONG: 01:53PM

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 88 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 88 of 122 CONFIDENTIAL

1 Cisco? 01:53PM	1 Do you see that? 01:56PM
2 MR CANNON: Same objections 01:53PM	2 A Yes. 01:56PM
3 THE WITNESS: Yes 01:53PM	3 Q What are "MIB tables"? 01:56PM
4 BY MR WONG: 01:53PM	4 A So "MIB tables" are the the storage that make 01:56PM
5 Q Now, you were looking at Exhibit 316 while you 01:53PM	5 SNMP queries possible, so MIBs are essentially 01:56PM
6 were confirming your answer; correct? 01:53PM	6 support information for SNMP. 01:56PM
7 A That's correct 01:53PM	7 Q And so are are the tables different from the 01:56PM
8 Q What what were you looking for in Exhibit 316 01:53PM	8 MIBs themselves? 01:56PM
9 to confirm your answer? 01:53PM	9 A MIBs MIB tables are like the blueprint for the 01:56PM
10 MR CANNON: Objection; mischaracterizes 01:53PM	10 actual tables I'm sorry, MIB tables are the blueprint 01:56PM
11 testimony 01:53PM	11 for the actual MIB data, if that makes sense. 01:56PM
12 THE WITNESS: I was looking at the CL1 I 01:53PM	12 Q MIB tables I'm sorry, can you explain that? 01:56PM
13 vaguely recalled that I supported that, but I was 01:53PM	13 So let me let me ask the question again. 01:57PM
14 looking at the the list of CLIs here to to confinn 01:53PM	14 How strike that. 01:57PM
15 that it it was in Phase 1 01:54PM	15 Are tables different from the MIBs themselves? 01:57PM
16 BY MR WONG: 01:54PM	16 A In in the and I have not used this language 01:57PM
17 Q And which CLI command did you look at to confirm 01:54PM	17 for a long time, and I've not used SNMP in a long time, 01:57PM
18 that the support of counters was included in Phase 1 of 01:54PM	18 but my understanding is that the language of SNMP in 01:57PM
19 the LLDP project? 01:54PM	19 the language of SNMP, the MIB table is like a blueprint. 01:57PM
20 MR CANNON: Objection; vague, mischaracterizes 01:54PM	20 It's called the data that is housed in the MIB. 01:57PM
21 testimony 01:54PM	21 Q And the the term "MIB table," that is that 01:57PM
22 THE WITNESS: I just confirmed that "show lldp 01:54PM	22 a term that is familiar to those in networking industry? 01:57PM
23 traffic" does exist in this table so that I can answer 01:54PM	MR. CANNON: Objection; vague, lacks foundation, 01:57PM
24 you 01:54PM	24 calls for improper opinion testimony. 01:57PM
25 BY MR WONG: 01:54PM Page 158	25 THE WITNESS: Yes. 01:57PM Page 160
1450100	1.00
1 Q If you turn to page 49 of Exhibit 315 let me 01:54PM	1 BY MR. WONG: 01:57PM
1 Q If you turn to page 49 of Exhibit 315 let me 01:54PM 2 know when you are there. 01:54PM	1 BY MR. WONG: 01:57PM 2 Q And you certainly know what a "MIB table" is if 01:57PM
2 know when you are there. 01:54PM 3 A Yes. 01:54PM 4 Q if you look under Section 11.2.2, it's called 01:54PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM
2 know when you are there. 01:54PM 3 A Yes. 01:54PM 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM
2 know when you are there. 01:54PM 3 A Yes. 01:54PM 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM 6 Do you see that? 01:54PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM
2 know when you are there. 01:54PM 3 A Yes. 01:54PM 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM 6 Do you see that? 01:54PM 7 A Yes. 01:54PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM
2 know when you are there. 01:54PM 3 A Yes. 01:54PM 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM 6 Do you see that? 01:54PM 7 A Yes. 01:54PM 8 Q What is "TLV selection management"? 01:54PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM 8 A Yes. 01:58PM
2 know when you are there. 01:54PM 3 A Yes. 01:54PM 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM 6 Do you see that? 01:54PM 7 A Yes. 01:54PM 8 Q What is "TLV selection management"? 01:54PM 9 A So some of the data that is sent in a discovery 01:54PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM 8 A Yes. 01:58PM 9 Q What was the process at Cisco for selecting a 01:58PM
2 know when you are there. 01:54PM 3 A Yes. 01:54PM 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM 6 Do you see that? 01:54PM 7 A Yes. 01:54PM 8 Q What is "TLV selection management"? 01:54PM 9 A So some of the data that is sent in a discovery 01:54PM 10 packet is mandatory, and some of it is optional, and 01:55PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM 8 A Yes. 01:58PM 9 Q What was the process at Cisco for selecting a 01:58PM 10 command syntax? And we can talk specifically about the 01:58PM
2 know when you are there. 01:54PM 3 A Yes. 01:54PM 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM 6 Do you see that? 01:54PM 7 A Yes. 01:54PM 8 Q What is "TLV selection management"? 01:54PM 9 A So some of the data that is sent in a discovery 01:54PM 10 packet is mandatory, and some of it is optional, and 01:55PM 11 what the standard calls for is the ability to specify 01:55PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM 8 A Yes. 01:58PM 9 Q What was the process at Cisco for selecting a 01:58PM 10 command syntax? And we can talk specifically about the 01:58PM 11 commands listed on Exhibit 316 01:58PM
2 know when you are there. 01:54PM 3 A Yes. 01:54PM 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM 6 Do you see that? 01:54PM 7 A Yes. 01:54PM 8 Q What is "TLV selection management"? 01:54PM 9 A So some of the data that is sent in a discovery 01:54PM 10 packet is mandatory, and some of it is optional, and 01:55PM 11 what the standard calls for is the ability to specify 01:55PM 12 which of the optional TLVs the admin wants to send on a 01:55PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM 8 A Yes. 01:58PM 9 Q What was the process at Cisco for selecting a 01:58PM 10 command syntax? And we can talk specifically about the 01:58PM 11 commands listed on Exhibit 316 01:58PM 12 A Mm-hmm. 01:58PM
2 know when you are there. 01:54PM 3 A Yes. 01:54PM 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM 6 Do you see that? 01:54PM 7 A Yes. 01:54PM 8 Q What is "TLV selection management"? 01:54PM 9 A So some of the data that is sent in a discovery 01:54PM 10 packet is mandatory, and some of it is optional, and 01:55PM 11 what the standard calls for is the ability to specify 01:55PM 12 which of the optional TLVs the admin wants to send on a 01:55PM 13 particular port or suppress on a particular port, so 01:55PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM 8 A Yes. 01:58PM 9 Q What was the process at Cisco for selecting a 01:58PM 10 command syntax? And we can talk specifically about the 01:58PM 11 commands listed on Exhibit 316 01:58PM 12 A Mm-hmm. 01:58PM 13 Q but so let me just rephrase the question, 01:58PM
2 know when you are there. 01:54PM 3 A Yes. 01:54PM 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM 6 Do you see that? 01:54PM 7 A Yes. 01:54PM 8 Q What is "TLV selection management"? 01:54PM 9 A So some of the data that is sent in a discovery 01:54PM 10 packet is mandatory, and some of it is optional, and 01:55PM 11 what the standard calls for is the ability to specify 01:55PM 12 which of the optional TLVs the admin wants to send on a 01:55PM 13 particular port or suppress on a particular port, so 01:55PM 14 that's what TLV selection management essentially means. 01:55PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM 8 A Yes. 01:58PM 9 Q What was the process at Cisco for selecting a 01:58PM 10 conmand syntax? And we can talk specifically about the 01:58PM 11 commands listed on Exhibit 316 01:58PM 12 A Mm-hmm. 01:58PM 13 Q but so let me just rephrase the question, 01:58PM 14 actually. 01:58PM
2 know when you are there. 01:54PM 3 A Yes. 01:54PM 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM 6 Do you see that? 01:54PM 7 A Yes. 01:54PM 8 Q What is "TLV selection management"? 01:54PM 9 A So some of the data that is sent in a discovery 01:54PM 10 packet is mandatory, and some of it is optional, and 01:55PM 11 what the standard calls for is the ability to specify 01:55PM 12 which of the optional TLVs the admin wants to send on a 01:55PM 13 particular port or suppress on a particular port, so 01:55PM 14 that's what TLV selection management essentially means. 01:55PM 15 Q And when you worked on Phase 1 of the LLDP 01:55PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM 8 A Yes. 01:58PM 9 Q What was the process at Cisco for selecting a 01:58PM 10 conmand syntax? And we can talk specifically about the 01:58PM 11 commands listed on Exhibit 316 01:58PM 12 A Mm-hmm. 01:58PM 13 Q but so let me just rephrase the question, 01:58PM 14 actually. 01:58PM 15 For the commands listed in Exhibit 316, what was 01:58PM
2 know when you are there. 01:54PM 3 A Yes. 01:54PM 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM 6 Do you see that? 01:54PM 7 A Yes. 01:54PM 8 Q What is "TLV selection management"? 01:54PM 9 A So some of the data that is sent in a discovery 01:54PM 10 packet is mandatory, and some of it is optional, and 01:55PM 11 what the standard calls for is the ability to specify 01:55PM 12 which of the optional TLVs the admin wants to send on a 01:55PM 13 particular port or suppress on a particular port, so 01:55PM 14 that's what TLV selection management essentially means. 01:55PM 15 Q And when you worked on Phase 1 of the LLDP 01:55PM 16 project at Cisco, did you include the ability for TLV 01:55PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM 8 A Yes. 01:58PM 9 Q What was the process at Cisco for selecting a 01:58PM 10 conmand syntax? And we can talk specifically about the 01:58PM 11 commands listed on Exhibit 316 01:58PM 12 A Mm-hmm. 01:58PM 13 Q but so let me just rephrase the question, 01:58PM 14 actually. 01:58PM 15 For the commands listed in Exhibit 316, what was 01:58PM 16 the process at Cisco for selecting the command syntax? 01:58PM
2 know when you are there. 01:54PM 3 A Yes. 01:54PM 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM 6 Do you see that? 01:54PM 7 A Yes. 01:54PM 8 Q What is "TLV selection management"? 01:54PM 9 A So some of the data that is sent in a discovery 01:54PM 10 packet is mandatory, and some of it is optional, and 01:55PM 11 what the standard calls for is the ability to specify 01:55PM 12 which of the optional TLVs the admin wants to send on a 01:55PM 13 particular port or suppress on a particular port, so 01:55PM 14 that's what TLV selection management essentially means. 01:55PM 15 Q And when you worked on Phase 1 of the LLDP 01:55PM 16 project at Cisco, did you include the ability for TLV 01:55PM 17 selection in that implementation? 01:55PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM 8 A Yes. 01:58PM 9 Q What was the process at Cisco for selecting a 01:58PM 10 command syntax? And we can talk specifically about the 01:58PM 11 commands listed on Exhibit 316 01:58PM 12 A Mm-hmm. 01:58PM 13 Q but so let me just rephrase the question, 01:58PM 14 actually. 01:58PM 15 For the commands listed in Exhibit 316, what was 01:58PM 16 the process at Cisco for selecting the command syntax? 01:58PM 17 MR, CANNON: Objection; vague, lacks foundation, 01:58PM
2 know when you are there. 01:54PM 3 A Yes. 01:54PM 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM 6 Do you see that? 01:54PM 7 A Yes. 01:54PM 8 Q What is "TLV selection management"? 01:54PM 9 A So some of the data that is sent in a discovery 01:54PM 10 packet is mandatory, and some of it is optional, and 01:55PM 11 what the standard calls for is the ability to specify 01:55PM 12 which of the optional TLVs the admin wants to send on a 01:55PM 13 particular port or suppress on a particular port, so 01:55PM 14 that's what TLV selection management essentially means. 01:55PM 15 Q And when you worked on Phase 1 of the LLDP 01:55PM 16 project at Cisco, did you include the ability for TLV 01:55PM 17 selection in that implementation? 01:55PM 18 A Yes. 01:55PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM 8 A Yes. 01:58PM 9 Q What was the process at Cisco for selecting a 01:58PM 10 counmand syntax? And we can talk specifically about the 01:58PM 11 commands listed on Exhibit 316 01:58PM 12 A Mm-hmm. 01:58PM 13 Q but so let me just rephrase the question, 01:58PM 14 actually. 01:58PM 15 For the commands listed in Exhibit 316, what was 01:58PM 16 the process at Cisco for selecting the command syntax? 01:58PM 17 MR, CANNON: Objection; vague, lacks foundation, 01:58PM 18 calls for speculation. 01:58PM
2 know when you are there. 3 A Yes. 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM 6 Do you see that? 01:54PM 7 A Yes. 01:54PM 8 Q What is "TLV selection management"? 01:54PM 9 A So some of the data that is sent in a discovery 01:54PM 10 packet is mandatory, and some of it is optional, and 01:55PM 11 what the standard calls for is the ability to specify 01:55PM 12 which of the optional TLVs the admin wants to send on a 01:55PM 13 particular port or suppress on a particular port, so 01:55PM 14 that's what TLV selection management essentially means. 01:55PM 15 Q And when you worked on Phase 1 of the LLDP 01:55PM 16 project at Cisco, did you include the ability for TLV 01:55PM 17 selection in that implementation? 01:55PM 18 A Yes. 01:55PM 19 Q In that first paragraph below Section 11.2.2 in 01:55PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM 8 A Yes. 01:58PM 9 Q What was the process at Cisco for selecting a 01:58PM 10 command syntax? And we can talk specifically about the 01:58PM 11 commands listed on Exhibit 316 01:58PM 12 A Mm-hmm. 01:58PM 13 Q but so let me just rephrase the question, 01:58PM 14 actually. 01:58PM 15 For the commands listed in Exhibit 316, what was 01:58PM 16 the process at Cisco for selecting the command syntax? 01:58PM 17 MR. CANNON: Objection; vague, lacks foundation, 01:58PM 18 calls for speculation. 01:58PM 19 THE WITNESS: Well, there is the the 01:58PM
2 know when you are there. 3 A Yes. 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 6 Do you see that? 7 A Yes. 8 Q What is "TLV selection management"? 9 A So some of the data that is sent in a discovery 01:54PM 10 packet is mandatory, and some of it is optional, and 01:55PM 11 what the standard calls for is the ability to specify 01:55PM 12 which of the optional TLVs the admin wants to send on a 01:55PM 13 particular port or suppress on a particular port, so 01:55PM 14 that's what TLV selection management essentially means. 01:55PM 15 Q And when you worked on Phase 1 of the LLDP 01:55PM 16 project at Cisco, did you include the ability for TLV 01:55PM 17 selection in that implementation? 10 1:55PM 18 A Yes. 10 1:55PM 20 In that first paragraph below Section 11.2.2 in 01:55PM 20 Exhibit 315 01:56PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM 8 A Yes. 01:58PM 9 Q What was the process at Cisco for selecting a 01:58PM 10 conmand syntax? And we can talk specifically about the 01:58PM 11 commands listed on Exhibit 316 01:58PM 12 A Mm-hmm. 01:58PM 13 Q but so let me just rephrase the question, 01:58PM 14 actually. 01:58PM 15 For the commands listed in Exhibit 316, what was 01:58PM 16 the process at Cisco for selecting the command syntax? 01:58PM 17 MR. CANNON: Objection; vague, lacks foundation, 01:58PM 18 calls for speculation. 01:58PM 19 THE WITNESS: Well, there is the the 01:58PM 20 product owner, which is me, lead developer for the 01:58PM
2 know when you are there. 3 A Yes. 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 6 Do you see that? 7 A Yes. 8 Q What is "TLV selection management"? 9 A So some of the data that is sent in a discovery 01:54PM 10 packet is mandatory, and some of it is optional, and 01:55PM 11 what the standard calls for is the ability to specify 01:55PM 12 which of the optional TLVs the admin wants to send on a 01:55PM 13 particular port or suppress on a particular port, so 01:55PM 14 that's what TLV selection management essentially means. 01:55PM 15 Q And when you worked on Phase 1 of the LLDP 01:55PM 16 project at Cisco, did you include the ability for TLV 01:55PM 17 selection in that implementation? 18 A Yes. 19 Q In that first paragraph below Section 11.2.2 in 01:55PM 20 Exhibit 315 01:56PM 21 A Mm-hmm. 01:56PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM 8 A Yes. 01:58PM 9 Q What was the process at Cisco for selecting a 01:58PM 10 command syntax? And we can talk specifically about the 01:58PM 11 commands listed on Exhibit 316 01:58PM 12 A Mm-hmm. 01:58PM 13 Q but so let me just rephrase the question, 01:58PM 14 actually. 01:58PM 15 For the commands listed in Exhibit 316, what was 01:58PM 16 the process at Cisco for selecting the command syntax? 01:58PM 17 MR. CANNON: Objection; vague, lacks foundation, 01:58PM 18 calls for speculation. 01:58PM 19 THE WITNESS: Well, there is the the 01:58PM 20 product owner, which is me, lead developer for the 01:58PM
2 know when you are there. 3 A Yes. 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM 6 Do you see that? 01:54PM 7 A Yes. 8 Q What is "TLV selection management"? 01:54PM 9 A So some of the data that is sent in a discovery 01:54PM 10 packet is mandatory, and some of it is optional, and 01:55PM 11 what the standard calls for is the ability to specify 01:55PM 12 which of the optional TLVs the admin wants to send on a 01:55PM 13 particular port or suppress on a particular port, so 01:55PM 14 that's what TLV selection management essentially means. 01:55PM 15 Q And when you worked on Phase 1 of the LLDP 01:55PM 16 project at Cisco, did you include the ability for TLV 01:55PM 17 selection in that implementation? 01:55PM 18 A Yes. 01:55PM 19 Q In that first paragraph below Section 11.2.2 in 01:55PM 20 Exhibit 315 01:56PM 21 A Mm-hmm. 01:56PM 22 Q the second sentence says, "The following LLDP 01:56PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM 8 A Yes. 01:58PM 9 Q What was the process at Cisco for selecting a 01:58PM 10 command syntax? And we can talk specifically about the 01:58PM 11 commands listed on Exhibit 316 01:58PM 12 A Mm-hmm. 01:58PM 13 Q but so let me just rephrase the question, 01:58PM 14 actually. 01:58PM 15 For the commands listed in Exhibit 316, what was 01:58PM 16 the process at Cisco for selecting the command syntax? 01:58PM 17 MR, CANNON: Objection; vague, lacks foundation, 01:58PM 18 calls for speculation. 01:58PM 19 THE WITNESS: Well, there is the the 01:58PM 20 product owner, which is me, lead developer for the 01:58PM 21 product, comes up with initial proposal, and it is, 01:58PM 22 essentially, reviewed by a group of people that are 01:58PM
2 know when you are there. 3 A Yes. 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM 6 Do you see that? 01:54PM 7 A Yes. 01:54PM 8 Q What is "TLV selection management"? 01:54PM 10 packet is mandatory, and some of it is optional, and 01:55PM 11 what the standard calls for is the ability to specify 01:55PM 12 which of the optional TLVs the admin wants to send on a 01:55PM 13 particular port or suppress on a particular port, so 01:55PM 14 that's what TLV selection management essentially means. 01:55PM 15 Q And when you worked on Phase 1 of the LLDP 01:55PM 16 project at Cisco, did you include the ability for TLV 01:55PM 17 selection in that implementation? 01:55PM 18 A Yes. 01:55PM 19 Q In that first paragraph below Section 11.2.2 in 01:55PM 20 Exhibit 315 01:56PM 21 A Mm-hmm. 01:56PM 22 Q the second sentence says, "The following LLDP 01:56PM 23 variables cross reference to LLDP local systems 01:56PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM 8 A Yes. 01:58PM 9 Q What was the process at Cisco for selecting a 01:58PM 10 counmand syntax? And we can talk specifically about the 01:58PM 11 commands listed on Exhibit 316 01:58PM 12 A Mm-hmm. 01:58PM 13 Q but so let me just rephrase the question, 01:58PM 14 actually. 01:58PM 15 For the commands listed in Exhibit 316, what was 01:58PM 16 the process at Cisco for selecting the command syntax? 01:58PM 17 MR. CANNON: Objection; vague, lacks foundation, 01:58PM 18 calls for speculation. 01:58PM 19 THE WITNESS: Well, there is the the 01:58PM 20 product owner, which is me, lead developer for the 01:58PM 21 product, comes up with initial proposal, and it is, 01:58PM 22 essentially, reviewed by a group of people that are 01:58PM 23 highly experienced for for usability and 01:59PM
2 know when you are there. 3 A Yes. 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM 6 Do you see that? 01:54PM 7 A Yes. 01:54PM 8 Q What is "TLV selection management"? 01:54PM 9 A So some of the data that is sent in a discovery 01:54PM 10 packet is mandatory, and some of it is optional, and 01:55PM 11 what the standard calls for is the ability to specify 01:55PM 12 which of the optional TLVs the admin wants to send on a 01:55PM 13 particular port or suppress on a particular port, so 01:55PM 14 that's what TLV selection management essentially means. 01:55PM 15 Q And when you worked on Phase 1 of the LLDP 01:55PM 16 project at Cisco, did you include the ability for TLV 01:55PM 17 selection in that implementation? 01:55PM 18 A Yes. 01:55PM 19 Q In that first paragraph below Section 11.2.2 in 01:55PM 20 Exhibit 315 01:56PM 21 A Mm-hmm. 01:56PM 22 Q the second sentence says, "The following LLDP 01:56PM 23 variables cross reference to LLDP local systems 01:56PM 24 configuration MIB tables," and then it there's a 01:56PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM 8 A Yes. 01:58PM 9 Q What was the process at Cisco for selecting a 01:58PM 10 command syntax? And we can talk specifically about the 01:58PM 11 commands listed on Exhibit 316 01:58PM 12 A Mm-hmm. 01:58PM 13 Q but so let me just rephrase the question, 01:58PM 14 actually. 01:58PM 15 For the commands listed in Exhibit 316, what was 01:58PM 16 the process at Cisco for selecting the command syntax? 01:58PM 17 MR. CANNON: Objection; vague, lacks foundation, 01:58PM 18 calls for speculation. 01:58PM 19 THE WITNESS: Well, there is the the 01:58PM 20 product owner, which is me, lead developer for the 01:58PM 21 product, comes up with initial proposal, and it is, 01:58PM 22 essentially, reviewed by a group of people that are 01:58PM 23 highly experienced for for usability and 01:59PM 24 extensibility, and so on, so there are certain criteria 01:59PM
2 know when you are there. 3 A Yes. 4 Q if you look under Section 11.2.2, it's called 01:54PM 5 "TLV selection management." 01:54PM 6 Do you see that? 01:54PM 7 A Yes. 01:54PM 8 Q What is "TLV selection management"? 01:54PM 9 A So some of the data that is sent in a discovery 01:54PM 10 packet is mandatory, and some of it is optional, and 01:55PM 11 what the standard calls for is the ability to specify 01:55PM 12 which of the optional TLVs the admin wants to send on a 01:55PM 13 particular port or suppress on a particular port, so 01:55PM 14 that's what TLV selection management essentially means. 01:55PM 15 Q And when you worked on Phase 1 of the LLDP 01:55PM 16 project at Cisco, did you include the ability for TLV 01:55PM 17 selection in that implementation? 01:55PM 18 A Yes. 01:55PM 19 Q In that first paragraph below Section 11.2.2 in 01:55PM 20 Exhibit 315 01:56PM 21 A Mm-hmm. 01:56PM 22 Q the second sentence says, "The following LLDP 01:56PM 23 variables cross reference to LLDP local systems 01:56PM 24 configuration MIB tables," and then it there's a 01:56PM	2 Q And you certainly know what a "MIB table" is if 01:57PM 3 you heard that term used; correct? 01:58PM 4 A Yes. 01:58PM 5 Q And you would understand what a "MIB table" is 01:58PM 6 based upon your experience working in the networking 01:58PM 7 industry; correct? 01:58PM 8 A Yes. 01:58PM 9 Q What was the process at Cisco for selecting a 01:58PM 10 counmand syntax? And we can talk specifically about the 01:58PM 11 commands listed on Exhibit 316 01:58PM 12 A Mm-hmm. 01:58PM 13 Q but so let me just rephrase the question, 01:58PM 14 actually. 01:58PM 15 For the commands listed in Exhibit 316, what was 01:58PM 16 the process at Cisco for selecting the command syntax? 01:58PM 17 MR. CANNON: Objection; vague, lacks foundation, 01:58PM 18 calls for speculation. 01:58PM 19 THE WITNESS: Well, there is the the 01:58PM 20 product owner, which is me, lead developer for the 01:58PM 21 product, comes up with initial proposal, and it is, 01:58PM 22 essentially, reviewed by a group of people that are 01:58PM 23 highly experienced for for usability and 01:59PM

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 89 of 122 CONFIDENTIAL

COTTI	
1 subcommands under certain at certain places, and 02:16PM	1 Q Did you consider that guideline when you were 02:19PM
2 that that's that's what it means 02:16PM	2 devising the command syntaxes listed on Exhibit 316? 02:19PM
3 Q And why is that important when coming up with a 02:16PM	3 MR CANNON: Objection; vague 02:19PM
4 command syntax? 02:16PM	4 THE WITNESS: Yes In general, yes 02:19PM
5 MR CANNON: Objection; vague, lacks foundation, 02:16PM	5 BY MR WONG: 02:19PM
6 incomplete hypothetical, calls for improper opinion 02:16PM	6 Q How important is the vocabul strike that 02:19PM
7 testimony 02:16PM	7 How important is is understanding the 02:19PM
8 THE WITNESS: To support extensibility in in 02:16PM	8 vocabulary of the intended user of a command to coming 02:19PM
9 general in the sense that we might do certain things in 02:17PM	9 up with a command syntax, in your view? 02:19PM
10 Phase I and we might plan to include more commands at a 02:17PM	10 MR CANNON: Objection; vague, lacks foundation, 02:19PM
11 certain level in in the command hierarchy at a later 02:17PM	11 calls for improper opinion testimony 02:19PM
12 phase, and that is if you know you already want to do 02:17PM	12 THE WITNESS: It's fairly important 02:19PM
13 that But sometimes we don't even know, and it's all 02:17PM	13 BY MR WONG: 02:20PM
14 the more pressing at that point to for for it to 02:17PM	14 Q Did you consider the vocabulary of the intended 02:20PM
15 be designed for extensibility 02:17PM	15 user of the LLDP functionality when you were coming up 02:20PM
16 BY MR WONG: 02:17PM	16 with the commands listed on Exhibit 316? 02:20PM
17 Q Did you consider extensibility when you were 02:17PM	17 MR CANNON: Objection; vague 02:20PM
18 proposing the command syntaxes for the commands listed 02:17PM	18 THE WITNESS: Yes 02:20PM
19 on Exhibit 316? 02:17PM	19 BY MR WONG: 02:20PM
20 MR CANNON: Objection; vague 02:17PM	20 Q Do you think it's important to have guidelines 02:20PM
21 THE WITNESS: Definitely, yes 02:17PM	21 for the addition of new commands to a command-line 02:20 PM
22 BY MR WONG: 02:17PM	22 interface? 02:20PM
23 Q If you turn to page 4 of Exhibit 318, No 6 02:17PM	23 MR CANNON: Objection; vague, incomplete 02:20PM
	3 , , , , , ,
24 let me know when you are there 02:18PM 25 A Okay 02:18PM	24 hypothetical, lacks foundation, calls for improper 02:20PM 25 opinion testimony 02:20PM
Page 170	Page 172
1 Q it says, "When naming a command, try to pick 02:18PM	1 THE WITNESS: Yes. 02:20PM
2 names that would be familiar to people in the industry " 02:18PM	2 BY MR. WONG: 02:20PM
3 Do you see that? 02:18PM	3 Q Why do you think it's important to have 02:20PM
4 A Yes 02;18PM	4 guidelines for the addition of new commands to a 02:20PM
5 Q When you came up with the commands listed on 02:18PM	5 command-line interface? 02:20PM
6 Exhibit 316, did you try to pick names that would be 02:18PM	6 MR. CANNON: Same objections. 02:20PM
7 familiar to people in the industry? 02:18PM	7 THE WITNESS: The primary reason is the inability 02:20PM
8 MR CANNON: Objection; vague 02:18PM	8 to reverse commands and the need for backward 02:21PM
9 THE WITNESS: Yes 02:18PM	9 compatibility at every stage of the product evolution. 02:21PM
10 BY MR WONG: 02:18PM	10 And that calls for basically putting out commands in a 02:21PM
11 Q And did you try to use accepted industry acronyms 02:18PM	11 manner that is backward compatible and extensible. 02:21PM
12 when coming up with the commands listed in Exhibit 316? 02:18PM	12 BY MR. WONG: 02:21PM
13 MR CANNON: Objection; vague 02:18PM	13 Q So, in your view, considering backwards 02:21PM
14 THE WITNESS: Yes 02:18PM	14 compatibility and extensibility are both important when 02:21PM
15 BY MR WONG: 02:18PM	15 coming up with a new command; correct? 02:21PM
16 Q If you look down at the bottom of page 4, 02:18PM	MR. CANNON: Objection; vague, mischaracterizes 02:21PM
17 No 10 let me know when you are there 02:18PM	17 testimony, lacks foundation, calls for improper opinion 02:21PM
18 A Yeah 02:19PM	18 testimony, incomplete hypothetical. 02:21PM
19 Q it says, "Commands should tend to be 02:19PM	19 THE WITNESS: In the context of the CLI we are 02:21PM
20 self-explanatory so that a relatively knowledgeable user 02:19PM	20 talking about, that would be correct. 02:21PM
21 can figure out the command function from the command and 02:19PM	21 BY MR. WONG: 02:21PM
22 on-line help without having to scurry off to the 02:19PM	22 Q And did you consider backwards compatibility and 02:21PM
23 manuals " 02:19PM	23 extensibility when you proposed the commands listed on 02:21PM
24 Do you see that? 02:19PM	24 Exhibit 316? 02:22PM
	25 MR. CANNON: Objection; vague. 02:22PM
Page 171	Page 173
	44 (D. 150 150)

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 90 of 122 CONFIDENTIAL

)
1	hierarchy. 02:38PM	1	come up with the syntax of "clear lldp counters"? 02:42PM
2	If you want a strict hierarchy, you would have an 02:38PM	2	MR. CANNON: Objection; vague. 02:42PM
3	intermediate node and list all the specific options, but 02:38PM	3	THE WITNESS: Oh, just that one command? 02:42PM
4	since there aren't any, I might have taken this 02:38PM	4	MR. WONG: Mm-hmin. 02:42PM
5	position; although, it's it's it may seem a little 02:38PM	5	THE WITNESS: I don't know, 15 minutes. 02:42PM
6	bit weak for in terms of future-proofing things. 02:38PM	6	BY MR. WONG: 02:42PM
7	So there's a there's a there's a balance 02:39PM	7	Q Okay. How long did it take you, approximately, 02:42PM
8	between future-proofing and and verbosity, and and 02:39PM	8	to do the source code writing to implement the 02:42PM
9	the more you try to feature-proof, the more verbose you 02:39PM	9	functionality for the "clear lldp counters" command? 02:42PM
10	can become, so it's more of a subjective column how you 02:39PM	10	MR. CANNON: Objection; vague, assumes facts not 02:42PM
11	design, keeping all of these in mind, yeah. 02:39PM	11	in evidence. 02:42PM
12	Q Thank you. 02:39PM	12	THE WITNESS: Okay. That would be, again, 02:42PM
13	And after letter "d" on Exhibit 321, you say, 02:39PM	13	15 minutes, and I have to add that this is a easiest one 02:42PM
14	quote: It is more intuitive for first-time users, end 02:39PM	14	to implement. 02:42PM
15	quote. 02:39PM	15	BY MR. WONG: 02:42PM
16	Do you see that? 02:39PM	16	Q For the "clear lldp table" command 02:42 PM
17	A Yes. 02:39PM	17	A Mm-hmm. 02:42PM
18	Q What did you mean by that? 02:39PM	18	Q what functionality does that perform? 02:43PM
19	A This means that that user interface should 02:39PM	19	A That is, again, a reset, but more at the enable 02:43PM
20	flow naturally in a sense that if I've never used 02:39PM	20 1	level in the sense that, let's say, a device comes up 02:43PM
21	anything similar, I should be pretty much able to I 02:39PM	21 8	and it discovers ten neighbors and we want to come in 02:43PM
22	should be able to come in and type in a reasonable 02:39PM	22 8	and manually reset the table by making it forget all 02:43PM
23	keyword for things and get help on it and be able to 02:40PM	23 t	those ten neighbors instantly, then we would use that 02:43PM
24	complete a configuration within a reasonable amount of 02:40PM	24 (coinmand. 02:43PM
25	time rather than going through hours of research on it. 02:40PM	25	Q And approximately how long did it take you to 02:43PM
	Page 186		Page 188
1	Q And that approach that you just described, did 02:40PM	i c	come up with the syntax of "clear lldp table"? 02:43PM
2	you apply that approach for the commands that are listed 02:40PM	2	MR CANNON: Objection; vague 02:43PM
3	in Exhibit 316? 02:40PM	3	THE WITNESS: The answer would be very similar to 02:43PM
4	MR. CANNON: Objection; vague. 02:40PM	4 tl	he other "clear" command 02:43PM
5	THE WITNESS: The what is 316? This is the 02:40PM	5 E	3Y MR WONG: 02:43PM
	one okay. This it it certainly influenced our 02:40PM	6	Q About 15 minutes? 02:43PM
	structure for these commands. Yeah, so intuitiveness, 02:40PM	7	A Yes 02:43PM
	extensibility, usability, aesthetics are all factors 02:40PM	8	Q And did it take you also about 15 minutes to 02:43PM
9	that we considered. 02:40PM	9 w	vrite the underlying source code for the functionality 02:43PM
10	BY MR. WONG: 02:41PM	10 o	f the "clear lldp table" command? ' 02:43PM
11	Q Let's look at Exhibit 316 now, Mr. Patil. 02:41PM	11	A No 02:43PM
12	A Yeah. 02:41PM	12	Q How long, approximately, did it take you to come 02:43PM
13	Q Starting with the first command, you were 02:41PM		p with the strike that 02:43PM
	associated with "clear lldp counters." 02:4IPM	14	How long, approximately, did it take you to write 02:43PM
15	Do you see that? 02:41PM		ne source code for the "clear lldp table" command? 02:43PM
16	A Yes. 02:41PM	16	MR CANNON: Objection; vague 02:44PM
17	Q What function does the "clear lldp counters" 02:41PM	17	THE WITNESS: I can't quantify it readily, but it 02:44PM
	command perform? 02:41PM		rould be, if you tally the total time spent on it, maybe 02:44PM
19 20 -	A It's basically a reset, if you will, of all the 02:41PM		couple hours, because there is dependencies to handle 02:44PM
	statistics that have been accumulated over a period of 02:41PM		's not as easy as setting a bunch of numbers to zero 02:44PM
	time, and if you want to start off on a clean slate 02:41PM		Y MR WONG: 02:44PM
	again at a certain period of time on a on a certain 02:41PM		Q And for all of the commands listed on 02:44PM
	router or switch, then you could issue that command and 02:42PM		xhibit 316, Mr Patil, can you describe for me, 02:44PM
	it will clear all the statistics. 02:42PM		enerally, what type of source code you would need to 02:44PM
25	Q And how long did it take you, approximately, to 02:42PM Page 187	25 W	rite to implement the functionality? 02:44PM Page 189
	1 dgC 107		1 ugc 107

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 91 of 122 CONFIDENTIAL

l MR CANNON: Objection; compound, vague, lacks 02:44PM	I MR CANNON: And because of that, we are going to 02:47PM
2 foundation, incomplete hypothetical, calls for improper 02:44PM	2 have a standing objection to questions about this 02:47PM
3 opinion testimony 02:44PM	3 partial document without the sufficient context for it 02:47PM
4 THE WITNESS: So to clarify the question, what 02:44PM	4 to be reviewed or understood 02:47PM
5 type of code needs to be written to clear the command 02:44PM	5 BY MR WONG: 02:47PM
6 for the "clear" commands? 02:44PM	6 Q Now, Mr Patil, I'm just providing this exhibit 02:47PM
7 MR WONG: No, no 02:44PM	7 for you so that you can refresh your recollection, if 02:48PM
8 Q So, for example, you know, to write the source 02:44PM	8 you need to 02:48PM
9 code for any of these commands listed on Exhibit 316 02:44PM	9 A Mm-hmm 02:48PM
10 A Yeah 02:44PM	10 Q about what these various commands do I won't 02:48PM
11 Q what are the types of source code that would 02:44PM	11 ask you any other questions about this exhibit, but feel 02:48PM
12 need to be written in order to implement them? 02:45PM	12 free to refer to Exhibit 322 02:48PM
13 MR CANNON: Objection; compound, vague, lacks 02:45PM	13 A Yeah 02:48PM
14 foundation, incomplete hypothetical, calls for improper 02:45PM	14 Q to answer my questions 02:48PM
15 opinion testimony 02:45PM	15 A Yes 02:48PM
16 THE WITNESS: The source code is written in C 02:45PM	16 Q So my question that I posed a few minutes ago is: 02:48PM
17 C language, and, essentially, all these commands have a 02:45PM	17 What is the function performed by the "Ildp holdtime" 02:48PM
18 callback which can be implemented as a C function, and 02:45PM	18 command? 02:48PM
19 whenever a user travels to a certain point and they pass 02:45PM	19 MR CANNON: Objection 02:48PM
20 tree, that function that gets attached to that node in 02:45PM	20 THE WITNESS: So 02:48PM
21 the tree gets executed, and, basically, it's it's 02:45PM	21 MR CANNON: lacks foundation, document speaks 02:48PM
22 given the information about the construct that it's 02:45PM	22 for itself 02:48PM
23 handling, and, at that point, they they just we 02:45PM	23 THE WITNESS: after reading, 1 still cannot 02:48PM
24 just go in and change the fields in there 02:45PM	24 completely understand why we did that or what the 02:48PM
25 BY MR WONG: 02:45PM	25 concept is, because it's been a while since I wrote this 02:48PM
Page 190	Page 192
1 Q And that explanation you just provided applies to 02:45PM	1 and I've not used it for a long time 02:48PM
2 all of the commands listed here on Exhibit 316; correct? 02:45PM	2 But I think it's a request from the sender to the 02:49PM
3 A Yes. 02:45PM	3 receiver to hold neighbor information, at least for a 02:49PM
4 MR. CANNON: Objection; vague, compound. 02:45PM	4 certain period of time, regardless of whether they get 02:49PM
5 BY MR. WONG: 02:45PM	5 utilized That's my understanding 02:49PM
6 Q What is the functionality performed by the "IIdp 02:46PM	6 BY MR WONG: 02:49PM
7 holdtime" command? 02:46PM	7 Q And how long, approximately, did it take you to 02:49PM
8 A Yeah, so that's an interesting one. It's a 02:46PM	8 come up with the syntax for the "IIdp holdtime" command? 02:49PM
9 subtle one, and I being that it's ten years since I 02;46PM	
,	9 MR CANNON: Objection; vague 02:49PM
10 wrote this, I've forgotten that, but it's it's kind 02:46PM	9 MR CANNON: Objection; vague 02:49PM 10 THE WITNESS: The actual the command itself? 02:49PM
,	3 , Q
10 wrote this, I've forgotten that, but it's it's kind 02:46PM 11 of technical detail on LLDP that I can look up if you 02:46PM 12 want, but 02:46PM	THE WITNESS: The actual the command itself? 02:49PM
10 wrote this, I've forgotten that, but it's it's kind 02:46PM 11 of technical detail on LLDP that I can look up if you 02:46PM	THE WITNESS: The actual the command itself? 02:49PM MR WONG: The actual yes, the syntax of the 02:49PM
10 wrote this, I've forgotten that, but it's it's kind 02:46PM 11 of technical detail on LLDP that I can look up if you 02:46PM 12 want, but 02:46PM	THE WITNESS: The actual the command itself? 02:49PM MR WONG: The actual yes, the syntax of the 02:49PM command 02:49PM
10 wrote this, I've forgotten that, but it's it's kind 02:46PM 11 of technical detail on LLDP that I can look up if you 02:46PM 12 want, but 02:46PM 13 MR. WONG: Maybe this will help you. 02:46PM	THE WITNESS: The actual the command itself? 02:49PM MR WONG: The actual yes, the syntax of the 02:49PM command 02:49PM MR CANNON: Objection; vague 02:49PM
10 wrote this, I've forgotten that, but it's it's kind 02:46PM 11 of technical detail on LLDP that I can look up if you 02:46PM 12 want, but 02:46PM 13 MR. WONG: Maybe this will help you. 02:46PM 14 What's the next exhibit number? 02:46PM 15 THE REPORTER: 322. 02:47PM 16 (Exhibit 322 was marked for 02:47PM	THE WITNESS: The actual the command itself? 02:49PM MR WONG: The actual yes, the syntax of the 02:49PM command 02:49PM MR CANNON: Objection; vague 02:49PM THE WITNESS: 15 minutes 02:49PM
10 wrote this, I've forgotten that, but it's it's kind 02:46PM 11 of technical detail on LLDP that I can look up if you 02:46PM 12 want, but 02:46PM 13 MR. WONG: Maybe this will help you. 02:46PM 14 What's the next exhibit number? 02:46PM 15 THE REPORTER: 322. 02:47PM 16 (Exhibit 322 was marked for 02:47PM 17 identification by the Court Reporter.) 02:47PM	THE WITNESS: The actual the command itself? 02:49PM MR WONG: The actual yes, the syntax of the 02:49PM command 02:49PM MR CANNON: Objection; vague 02:49PM THE WITNESS: 15 minutes 02:49PM BY MR WONG: 02:49PM
10 wrote this, I've forgotten that, but it's it's kind 02:46PM 11 of technical detail on LLDP that I can look up if you 02:46PM 12 want, but 02:46PM 13 MR. WONG: Maybe this will help you. 02:46PM 14 What's the next exhibit number? 02:46PM 15 THE REPORTER: 322. 02:47PM 16 (Exhibit 322 was marked for 02:47PM 17 identification by the Court Reporter.) 02:47PM 18 MR. WONG: The Court Reporter has marked, as 02:47PM	THE WITNESS: The actual the command itself? 02:49PM MR WONG: The actual yes, the syntax of the 02:49PM command 02:49PM MR CANNON: Objection; vague 02:49PM THE WITNESS: 15 minutes 02:49PM BY MR WONG: 02:49PM 15 BY MR WONG: 02:49PM
10 wrote this, I've forgotten that, but it's it's kind 02:46PM 11 of technical detail on LLDP that I can look up if you 02:46PM 12 want, but 02:46PM 13 MR. WONG: Maybe this will help you. 02:46PM 14 What's the next exhibit number? 02:46PM 15 THE REPORTER: 322. 02:47PM 16 (Exhibit 322 was marked for 02:47PM 17 identification by the Court Reporter.) 02:47PM 18 MR. WONG: The Court Reporter has marked, as 02:47PM 19 Exhibit 322, a document bearing Bates number, on the 02:47PM	THE WITNESS: The actual the command itself? 02:49PM MR WONG: The actual yes, the syntax of the 02:49PM command 02:49PM MR CANNON: Objection; vague 02:49PM THE WITNESS: 15 minutes 02:49PM BY MR WONG: 02:49PM Q Is your answer 15 minutes for all of the commands 02:49PM Isted in Exhibit 316? 02:49PM
10 wrote this, I've forgotten that, but it's it's kind 02:46PM 11 of technical detail on LLDP that I can look up if you 02:46PM 12 want, but 02:46PM 13 MR. WONG: Maybe this will help you. 02:46PM 14 What's the next exhibit number? 02:46PM 15 THE REPORTER: 322. 02:47PM 16 (Exhibit 322 was marked for 02:47PM 17 identification by the Court Reporter.) 02:47PM 18 MR. WONG: The Court Reporter has marked, as 02:47PM 19 Exhibit 322, a document bearing Bates number, on the 02:47PM 20 front page, CSI-CLI-00291752, and the last page of this 02:47PM	10 THE WITNESS: The actual the command itself? 02:49PM 11 MR WONG: The actual yes, the syntax of the 02:49PM 12 command 02:49PM 13 MR CANNON: Objection; vague 02:49PM 14 THE WITNESS: 15 minutes 02:49PM 15 BY MR WONG: 02:49PM 16 Q Is your answer 15 minutes for all of the commands 02:49PM 17 listed in Exhibit 316? 02:49PM 18 A No 02:49PM
10 wrote this, I've forgotten that, but it's it's kind 02:46PM 11 of technical detail on LLDP that I can look up if you 02:46PM 12 want, but 02:46PM 13 MR. WONG: Maybe this will help you. 02:46PM 14 What's the next exhibit number? 02:46PM 15 THE REPORTER: 322. 02:47PM 16 (Exhibit 322 was marked for 02:47PM 17 identification by the Court Reporter.) 02:47PM 18 MR. WONG: The Court Reporter has marked, as 02:47PM 19 Exhibit 322, a document bearing Bates number, on the 02:47PM 20 front page, CSI-CLI-00291752, and the last page of this 02:47PM 21 document is CSI-CLI-00292238, and for clarity on the 02:47PM	10 THE WITNESS: The actual the command itself? 02:49PM 11 MR WONG: The actual yes, the syntax of the 02:49PM 12 command 02:49PM 13 MR CANNON: Objection; vague 02:49PM 14 THE WITNESS: 15 minutes 02:49PM 15 BY MR WONG: 02:49PM 16 Q Is your answer 15 minutes for all of the commands 02:49PM 17 listed in Exhibit 316? 02:49PM 18 A No 02:49PM 19 MR CANNON: Objection; compound and vague 02:49PM
10 wrote this, I've forgotten that, but it's it's kind 02:46PM 11 of technical detail on LLDP that I can look up if you 02:46PM 12 want, but 02:46PM 13 MR. WONG: Maybe this will help you. 02:46PM 14 What's the next exhibit number? 02:46PM 15 THE REPORTER: 322. 02:47PM 16 (Exhibit 322 was marked for 02:47PM 17 identification by the Court Reporter.) 02:47PM 18 MR. WONG: The Court Reporter has marked, as 02:47PM 19 Exhibit 322, a document bearing Bates number, on the 02:47PM 20 front page, CSI-CLI-00291752, and the last page of this 02:47PM 21 document is CSI-CLI-00292238, and for clarity on the 02:47PM 22 record, this is not the complete document. The complete 02:47PM	THE WITNESS: The actual the command itself? 02:49PM MR WONG: The actual yes, the syntax of the 02:49PM command 02:49PM MR CANNON: Objection; vague 02:49PM THE WITNESS: 15 minutes 02:49PM BY MR WONG: 02:49PM Output Street in Exhibit 316? 02:49PM MR CANNON: Objection; compound and vague 02:49PM MR CANNON: Objection; compound and vague 02:49PM MR WONG: I'm just trying to save time here, 02:49PM
10 wrote this, I've forgotten that, but it's it's kind 02:46PM 11 of technical detail on LLDP that I can look up if you 02:46PM 12 want, but 02:46PM 13 MR. WONG: Maybe this will help you. 02:46PM 14 What's the next exhibit number? 02:46PM 15 THE REPORTER: 322. 02:47PM 16 (Exhibit 322 was marked for 02:47PM 17 identification by the Court Reporter.) 02:47PM 18 MR. WONG: The Court Reporter has marked, as 02:47PM 19 Exhibit 322, a document bearing Bates number, on the 02:47PM 20 front page, CSI-CLI-00291752, and the last page of this 02:47PM 21 document is CSI-CLI-00292238, and for clarity on the 02:47PM 22 record, this is not the complete document. The complete 02:47PM 23 document is over 500 pages long. This is excerpted 02:47PM	THE WITNESS: The actual the command itself? 02:49PM MR WONG: The actual yes, the syntax of the 02:49PM and 02:49PM MR CANNON: Objection; vague 02:49PM THE WITNESS: 15 minutes 02:49PM BY MR WONG: 02:49PM Our answer 15 minutes for all of the commands 02:49PM Isted in Exhibit 316? 02:49PM MR CANNON: Objection; compound and vague 02:49PM MR CANNON: Objection; compound and vague 02:49PM MR WONG: I'm just trying to save time here, 02:49PM MR WONG: I'm just trying to save time here, 02:49PM MR Patil 02:49PM Q Okay What is the function performed by the 02:49PM "Ildp receive" command? 02:49PM
10 wrote this, I've forgotten that, but it's it's kind 02:46PM 11 of technical detail on LLDP that I can look up if you 02:46PM 12 want, but 02:46PM 13 MR. WONG: Maybe this will help you. 02:46PM 14 What's the next exhibit number? 02:46PM 15 THE REPORTER: 322. 02:47PM 16 (Exhibit 322 was marked for 02:47PM 17 identification by the Court Reporter.) 02:47PM 18 MR. WONG: The Court Reporter has marked, as 02:47PM 19 Exhibit 322, a document bearing Bates number, on the 02:47PM 20 front page, CSI-CLI-00291752, and the last page of this 02:47PM 21 document is CSI-CLI-0029238, and for clarity on the 02:47PM 22 record, this is not the complete document. The complete 02:47PM 23 document is over 500 pages long. This is excerpted 02:47PM 24 pages from this document produced by Cisco with just the 02:47PM	THE WITNESS: The actual the command itself? 02:49PM MR WONG: The actual yes, the syntax of the 02:49PM and 02:49PM MR CANNON: Objection; vague 02:49PM THE WITNESS: 15 minutes 02:49PM BY MR WONG: 02:49PM Our answer 15 minutes for all of the commands 02:49PM Isted in Exhibit 316? 02:49PM MR CANNON: Objection; compound and vague 02:49PM MR CANNON: Objection; compound and vague 02:49PM MR WONG: I'm just trying to save time here, 02:49PM MR WONG: I'm just trying to save time here, 02:49PM MR WONG: I'm just trying to save time here, 02:49PM Our Patil 02:49PM Our Okay What is the function performed by the 02:49PM "Ildp receive" command? 02:49PM
10 wrote this, I've forgotten that, but it's it's kind 02:46PM 11 of technical detail on LLDP that I can look up if you 02:46PM 12 want, but 02:46PM 13 MR. WONG: Maybe this will help you. 02:46PM 14 What's the next exhibit number? 02:46PM 15 THE REPORTER: 322. 02:47PM 16 (Exhibit 322 was marked for 02:47PM 17 identification by the Court Reporter.) 02:47PM 18 MR. WONG: The Court Reporter has marked, as 02:47PM 19 Exhibit 322, a document bearing Bates number, on the 02:47PM 10 front page, CSI-CLI-00291752, and the last page of this 02:47PM 11 document is CSI-CLI-00292238, and for clarity on the 02:47PM 12 record, this is not the complete document. The complete 02:47PM 13 document is over 500 pages long. This is excerpted 02:47PM 14 pages from this document produced by Cisco with just the 02:47PM	THE WITNESS: The actual the command itself? 02:49PM MR WONG: The actual yes, the syntax of the 02:49PM and 02:49PM MR CANNON: Objection; vague 02:49PM THE WITNESS: 15 minutes 02:49PM BY MR WONG: 02:49PM Our answer 15 minutes for all of the commands 02:49PM Isted in Exhibit 316? 02:49PM MR CANNON: Objection; compound and vague 02:49PM MR CANNON: Objection; compound and vague 02:49PM MR WONG: I'm just trying to save time here, 02:49PM MR Patil 02:49PM Our CANNON: Objection; compound and vague 02:49PM MR WONG: I'm just trying to save time here, 02:49PM MR Patil 02:49PM Our CANNON: Objection; compound and vague 02:49PM MR Patil 02:49PM Our CANNON: Objection; compound and vague 02:49PM MR WONG: I'm just trying to save time here, 02:49PM MR Patil 02:49PM

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 92 of 122 CONFIDENTIAL

1 0 And have lave did it to be considered with 02 50 DM	
1 Q And how long did it take for you to come up with 02:50PM	1 than 15 minutes for you to come up with the command 02:52PM
2 the syntax for that command? 02:50PM	2 syntax, setting aside the "lldp transmit" and "lldp 02:52PM
3 MR. CANNON: Objection; vague. 02:50PM	3 receive" commands. 02:52PM
4 THE WITNESS: Several hours because that's where 02:50Pl	4 A Right. 02:52PM
5 we went back and forth on the extensibility, usability, 02:50PM	5 "Tlv-select." Some of the org-specific ones 02:52PM
6 redundancy, verbosity, and those discussions. 02:50PM	6 are they are just basically the they they are 02:53PM
7 BY MR. WONG: 02:50PM	7 straight up describing what they are, so that shouldn't 02:53PM
8 Q What is the function performed by the "Ildp 02:50PM	8 have been long. 02:53PM
9 reinit" command? 02:50PM	9 I would say "tlv-select," "transmit" and 02:53PM
10 A It specifies the amount of wait time for the 02:50PM	10 "receive," and maybe even "rate" command. Significant 02:53PM
11 protocol to reinitialize at any point in time. 02:50PM	11 thought process involved in in coming up with the 02:53PM
12 Q And how long did it take for you to come up with 02:50PM	12 right keywords. 02:53PM
13 the command syntax for the "Ildp reinit" command? 02:50PM	13 Q I'm sorry, did you say "rate command"? 02:53PM
14 MR. CANNON: Objection; vague. 02:50PM	14 A Yeah, "Ildp rate." 02:53PM
15 THE WITNESS: That's that one is in the 02:50PM	15 Q Oh, okay. So I'm looking at Exhibit 316, and I 02:53PM
16 15-minute category. 02:50PM	16 do not believe the "rate" command 02:53PM
17 BY MR. WONG: 02:50PM	17 A Oh, oh, I see 02:53PM
18 Q Did it also take you approximately 15 minutes to 02:51PM	18 Q is is part of that. 02:53PM
19 come up with the "Ildp run" command? And I'm referring 02:51Pl	
20 to the command syntax. 02:51PM	20 So among 316, I would say 02:53PM
21 MR. CANNON: Objection; vague. 02:51PM	21 Q Let me just ask the fresh question so that it's 02:53PM
22 THE WITNESS: "Lldp run," yes. 02:51PM	22 clear 02:53PM
23 BY MR. WONG: 02:51PM	23 A Yes. 02:53PM
24 Q Did it also take you 15 minutes to come up with 02:51PM	24 Q on the record. 02:53PM
25 the syntax for "Ildp timer"? 02:51PM Page 194	25 A Yes. 02:53PM Page 196
Page 194	rage 190
1 MR CANNON: Objection; vague 02:51PM	1 Q So for the commands listed on Exhibit 316 02:53PM
2 THE WITNESS: I don't know that one because I 02:51PM	2 A Yeah 02:53PM
3 I recall that some of these had a lot of discussion 02:51PM	3 Q which of the commands do you believe you spent 02:54PM
4 involved, and I I can clearly say that transmit and 02:51PM	4 more than 15 minutes on coming up with the command 02:54PM
	~ .
5 receive fell into that category 02:51PM	5 syntax? 02:54PM
i i	
5 receive fell into that category 02:51PM	5 syntax? 02:54PM
5 receive fell into that category 02:51PM 6 BY MR WONG: 02:51PM	5 syntax? 02:54PM 6 A "Transmit" and "receive," the "show" commands, 02:54PM
5 receive fell into that category 02:51PM 6 BY MR WONG: 02:51PM 7 Q Of taking longer than 15 minutes? 02:51PM	5 syntax? 02:54PM 6 A "Transmit" and "receive," the "show" commands, 02:54PM 7 "tlv-select" command, "Ildp timer" command, and "Ildp 02:54PM
5 receive fell into that category 02:51PM 6 BY MR WONG: 02:51PM 7 Q Of taking longer than 15 minutes? 02:51PM 8 A Longer time, longer than 15 minutes 02:51PM	5 syntax? 02:54PM 6 A "Transmit" and "receive," the "show" commands, 02:54PM 7 "ttv-select" command, "Ildp timer" command, and "Ildp 02:54PM 8 reinit" command 02:54PM
5 receive fell into that category 02:51PM 6 BY MR WONG: 02:51PM 7 Q Of taking longer than 15 minutes? 02:51PM 8 A Longer time, longer than 15 minutes 02:51PM 9 Q For the other commands listed on Exhibit 316 that 02:51PM	5 syntax? 02:54PM 6 A "Transmit" and "receive," the "show" commands, 02:54PM 7 "tlv-select" command, "Ildp timer" command, and "Ildp 02:54PM 8 reinit" command 02:54PM 9 Q Approximately how long do you think it took you 02:54PM
5 receive fell into that category 02:51PM 6 BY MR WONG: 02:51PM 7 Q Of taking longer than 15 minutes? 02:51PM 8 A Longer time, longer than 15 minutes 02:51PM 9 Q For the other commands listed on Exhibit 316 that 02:51PM 10 are not the "Ildp transmit" and "Ildp receive" 02:51PM	5 syntax? 02:54PM 6 A "Transmit" and "receive," the "show" commands, 02:54PM 7 "tly-select" command, "Ildp timer" command, and "Ildp 02:54PM 8 reinit" command 02:54PM 9 Q Approximately how long do you think it took you 02:54PM 10 to come up with the command syntax for the "Ildp reinit" 02:54PM
5 receive fell into that category 02:51PM 6 BY MR WONG: 02:51PM 7 Q Of taking longer than 15 minutes? 02:51PM 8 A Longer time, longer than 15 minutes 02:51PM 9 Q For the other commands listed on Exhibit 316 that 02:51PM 10 are not the "Ildp transmit" and "Ildp receive" 02:51PM 11 commands 02:51PM	5 syntax? 02:54PM 6 A "Transmit" and "receive," the "show" commands, 02:54PM 7 "tly-select" command, "Ildp timer" command, and "Ildp 02:54PM 8 reinit" command 02:54PM 9 Q Approximately how long do you think it took you 02:54PM 10 to come up with the command syntax for the "Ildp reinit" 02:54PM 11 command? 02:54PM
5 receive fell into that category 02:51PM 6 BY MR WONG: 02:51PM 7 Q Of taking longer than 15 minutes? 02:51PM 8 A Longer time, longer than 15 minutes 02:51PM 9 Q For the other commands listed on Exhibit 316 that 02:51PM 10 are not the "Itdp transmit" and "Itdp receive" 02:51PM 11 commands 02:51PM 12 A Mm-hmm 02:51PM	5 syntax? 02:54PM 6 A "Transmit" and "receive," the "show" commands, 02:54PM 7 "tty-select" command, "Ildp timer" command, and "Ildp 02:54PM 8 reinit" command 02:54PM 9 Q Approximately how long do you think it took you 02:54PM 10 to come up with the command syntax for the "Ildp reinit" 02:54PM 11 command? 02:54PM 12 MR CANNON: Objection; vague 02:54PM
5 receive fell into that category 02:51PM 6 BY MR WONG: 02:51PM 7 Q Of taking longer than 15 minutes? 02:51PM 8 A Longer time, longer than 15 minutes 02:51PM 9 Q For the other commands listed on Exhibit 316 that 02:51PM 10 are not the "Ildp transmit" and "Ildp receive" 02:51PM 11 commands 02:51PM 12 A Mm-hmm 02:51PM 13 Q do you believe that you spent approximately 02:52PM	5 syntax? 02:54PM 6 A "Transmit" and "receive," the "show" commands, 02:54PM 7 "tlv-select" command, "Ildp timer" command, and "Ildp 02:54PM 8 reinit" command 02:54PM 9 Q Approximately how long do you think it took you 02:54PM 10 to come up with the command syntax for the "Ildp reinit" 02:54PM 11 command? 02:54PM 12 MR CANNON: Objection; vague 02:54PM 13 THE WITNESS: I struggled with it 1'm not 02:54PM
5 receive fell into that category 02:51PM 6 BY MR WONG: 02:51PM 7 Q Of taking longer than 15 minutes? 02:51PM 8 A Longer time, longer than 15 minutes 02:51PM 9 Q For the other commands listed on Exhibit 316 that 02:51PM 10 are not the "Ildp transmit" and "Ildp receive" 02:51PM 11 commands 02:51PM 12 A Mm-hmm 02:51PM 13 Q do you believe that you spent approximately 02:52PM 14 15 minutes coming up with the command syntax for each of 02:52PM	5 syntax? 6 A "Transmit" and "receive," the "show" commands, 02:54PM 7 "tlv-select" command, "Ildp timer" command, and "Ildp 02:54PM 8 reinit" command 02:54PM 9 Q Approximately how long do you think it took you 02:54PM 10 to come up with the command syntax for the "Ildp reinit" 02:54PM 11 command? 12 MR CANNON: Objection; vagne 02:54PM 13 THE WITNESS: I struggled with it 1'm not 02:54PM 14 particularly happy with the way it is right right 02:54PM
5 receive fell into that category 02:51PM 6 BY MR WONG: 02:51PM 7 Q Of taking longer than 15 minutes? 02:51PM 8 A Longer time, longer than 15 minutes 02:51PM 9 Q For the other commands listed on Exhibit 316 that 02:51PM 10 are not the "lidp transmit" and "lidp receive" 02:51PM 11 commands 02:51PM 12 A Mm-hmm 02:51PM 13 Q do you believe that you spent approximately 02:52PM 14 15 minutes coming up with the command syntax for each of 02:52PM 15 those? 02:52PM	5 syntax? 02:54PM A "Transmit" and "receive," the "show" commands, 02:54PM 7 "tly-select" command, "Ildp timer" command, and "Ildp 02:54PM 8 reinit" command 02:54PM 9 Q Approximately how long do you think it took you 02:54PM 10 to come up with the command syntax for the "Ildp reinit" 02:54PM 11 command? 02:54PM 12 MR CANNON: Objection; vague 02:54PM 13 THE WITNESS: I struggled with it I'm not 02:54PM 14 particularly happy with the way it is right right 02:54PM 15 here Reading it is kind of a, for lack of a better 02:54PM 16 term, awkward keyword, but I didn't have anything better 02:55PM
5 receive fell into that category 02:51PM 6 BY MR WONG: 02:51PM 7 Q Of taking longer than 15 minutes? 02:51PM 8 A Longer time, longer than 15 minutes 02:51PM 9 Q For the other commands listed on Exhibit 316 that 02:51PM 10 are not the "Ildp transmit" and "Ildp receive" 02:51PM 11 commands 02:51PM 12 A Mm-hmm 02:51PM 13 Q do you believe that you spent approximately 02:52PM 14 15 minutes coming up with the command syntax for each of 02:52PM 15 those? 02:52PM 16 MR CANNON: Objection; vague and compound 02:52PM	5 syntax? 02:54PM A "Transmit" and "receive," the "show" commands, 02:54PM "tly-select" command, "Ildp timer" command, and "Ildp 02:54PM reinit" command 02:54PM Q Approximately how long do you think it took you 02:54PM to come up with the command syntax for the "Ildp reinit" 02:54PM command? 02:54PM MR CANNON: Objection; vague 02:54PM THE WITNESS: I struggled with it I'm not 02:54PM particularly happy with the way it is right right 02:54PM here Reading it is kind of a, for lack of a better 02:54PM
5 receive fell into that category 6 BY MR WONG: 7 Q Of taking longer than 15 minutes? 8 A Longer time, longer than 15 minutes 9 Q For the other commands listed on Exhibit 316 that 02:51PM 10 are not the "lidp transmit" and "lidp receive" 02:51PM 11 commands 02:51PM 12 A Mm-hmm 02:51PM 13 Q do you believe that you spent approximately 02:52PM 14 15 minutes coming up with the command syntax for each of 02:52PM 15 those? 02:52PM 16 MR CANNON: Objection; vague and compound 02:52PM 17 THE WITNESS: I would say a good 50 percent of 02:52PM 18 those, but some of the commands I struggle with myself 02:52PM	5 syntax? 02:54PM 6 A "Transmit" and "receive," the "show" commands, 02:54PM 7 "tty-select" command, "Ildp timer" command, and "Ildp 02:54PM 8 reinit" command 02:54PM 9 Q Approximately how long do you think it took you 02:54PM 10 to come up with the command syntax for the "Ildp reinit" 02:54PM 11 command? 02:54PM 12 MR CANNON: Objection; vagne 02:54PM 13 THE WITNESS: I struggled with it I'm not 02:54PM 14 particularly happy with the way it is right right 02:54PM 15 here Reading it is kind of a, for lack of a better 02:54PM 16 term, awkward keyword, but I didn't have anything better 02:55PM 17 to say to use there, so I might have struggled with 02:55PM 18 it for 45 minutes 02:55PM
5 receive fell into that category 6 BY MR WONG: 7 Q Of taking longer than 15 minutes? 9 Q For the other commands listed on Exhibit 316 that 02:51PM 10 are not the "lidp transmit" and "lidp receive" 11 commands 12 A Mm-hmm 13 Q do you believe that you spent approximately 14 15 minutes coming up with the command syntax for each of 02:52PM 15 those? 16 MR CANNON: Objection; vague and compound 17 THE WITNESS: I would say a good 50 percent of 02:52PM 18 those, but some of the commands 1 struggle with myself 19 to to put out the best initial proposal, so not 102:52PM 19 to to put out the best initial proposal, so not 102:52PM	5 syntax? 6 A "Transmit" and "receive," the "show" commands, 02:54PM 7 "tly-select" command, "Ildp timer" command, and "Ildp 02:54PM 8 reinit" command 02:54PM 9 Q Approximately how long do you think it took you 02:54PM 10 to come up with the command syntax for the "Ildp reinit" 02:54PM 11 command? 02:54PM 12 MR CANNON: Objection; vagne 02:54PM 13 THE WITNESS: I struggled with it I'm not 02:54PM 14 particularly happy with the way it is right right 02:54PM 15 here Reading it is kind of a, for lack of a better 02:54PM 16 term, awkward keyword, but I didn't have anything better 02:55PM 17 to say to use there, so I might have struggled with 02:55PM 18 it for 45 minutes 02:55PM 19 BY MR WONG: 02:55PM
5 receive fell into that category 6 BY MR WONG: 7 Q Of taking longer than 15 minutes? 9 Q For the other commands listed on Exhibit 316 that 02:51PM 10 are not the "lidp transmit" and "lidp receive" 11 commands 12 A Mm-hmm 12 A Mm-hmm 13 Q do you believe that you spent approximately 14 15 minutes coming up with the command syntax for each of 02:52PM 15 those? 16 MR CANNON: Objection; vague and compound 17 THE WITNESS: I would say a good 50 percent of 02:52PM 18 those, but some of the commands I struggle with myself 19 to to put out the best initial proposal, so not 10 02:52PM 20 everything is 15 minutes Some of them took where I 10 02:52PM 20 everything is 15 minutes Some of them took where I 10 02:52PM 20 everything is 15 minutes Some of them took where I 10 02:52PM 20 everything is 15 minutes Some of them took where I 10 02:52PM	5 syntax? 02:54PM 6 A "Transmit" and "receive," the "show" commands, 02:54PM 7 "tly-select" command, "lidp timer" command, and "lidp 02:54PM 8 reinit" command 02:54PM 9 Q Approximately how long do you think it took you 02:54PM 10 to come up with the command syntax for the "lidp reinit" 02:54PM 11 command? 02:54PM 12 MR CANNON: Objection; vague 02:54PM 13 THE WITNESS: I struggled with it I'm not 02:54PM 14 particularly happy with the way it is right right 02:54PM 15 here Reading it is kind of a, for lack of a better 02:54PM 16 term, awkward keyword, but I didn't have anything better 02:55PM 17 to say to use there, so I might have struggled with 02:55PM 18 it for 45 minutes 02:55PM 19 BY MR WONG: 02:55PM 20 Q But do you have an actual memory of spending 02:55PM
5 receive fell into that category 6 BY MR WONG: 7 Q Of taking longer than 15 minutes? 8 A Longer time, longer than 15 minutes 9 Q For the other commands listed on Exhibit 316 that 02:51PM 10 are not the "Ildp transmit" and "Ildp receive" 02:51PM 11 commands 12 A Mm-hmm 13 Q do you believe that you spent approximately 02:52PM 14 15 minutes coming up with the command syntax for each of 02:52PM 15 those? 16 MR CANNON: Objection; vague and compound 02:52PM 17 THE WITNESS: I would say a good 50 percent of 02:52PM 18 those, but some of the commands I struggle with myself 02:52PM 19 to to put out the best initial proposal, so not 02:52PM 20 everything is 15 minutes Some of them took where I 02:52PM	5 syntax? 02:54PM 6 A "Transmit" and "receive," the "show" commands, 02:54PM 7 "tly-select" command, "Ildp timer" command, and "Ildp 02:54PM 8 reinit" command 9 Q Approximately how long do you think it took you 02:54PM 10 to come up with the command syntax for the "Ildp reinit" 02:54PM 11 command? 02:54PM 12 MR CANNON: Objection; vague 02:54PM 13 THE WITNESS: I struggled with it I'm not 02:54PM 14 particularly happy with the way it is right right 02:54PM 15 here Reading it is kind of a, for lack of a better 02:54PM 16 term, awkward keyword, but I didn't have anything better 02:55PM 17 to say to use there, so I might have struggled with 02:55PM 18 it for 45 minutes 02:55PM 19 BY MR WONG: 02:55PM 20 Q But do you have an actual memory of spending 02:55PM 21 45 minutes on this command? 02:55PM
5 receive fell into that category 6 BY MR WONG: 7 Q Of taking longer than 15 minutes? 9 Q For the other commands listed on Exhibit 316 that 02:51PM 10 are not the "lidp transmit" and "lidp receive" 11 commands 12 A Mm-hmm 12 A Mm-hmm 13 Q do you believe that you spent approximately 14 15 minutes coming up with the command syntax for each of 02:52PM 15 those? 16 MR CANNON: Objection; vague and compound 17 THE WITNESS: I would say a good 50 percent of 02:52PM 18 those, but some of the commands 1 struggle with myself 19 to to put out the best initial proposal, so not 02:52PM 20 everything is 15 minutes Some of them took where I 02:52PM 21 went back and looked at other things and see what's the 02:52PM 22 most usable token to put there and a keyword to put 02:52PM	5 syntax? 02:54PM 6 A "Transmit" and "receive," the "show" commands, 02:54PM 7 "tty-select" command, "Ildp timer" command, and "Ildp 02:54PM 8 reinit" command 9 Q Approximately how long do you think it took you 02:54PM 10 to come up with the command syntax for the "Ildp reinit" 02:54PM 11 command? 02:54PM 12 MR CANNON: Objection; vague 02:54PM 13 THE WITNESS: I struggled with it I'm not 02:54PM 14 particularly happy with the way it is right right 02:54PM 15 here Reading it is kind of a, for lack of a better 02:54PM 16 term, awkward keyword, but I didn't have anything better 02:55PM 17 to say to use there, so I might have struggled with 02:55PM 18 it for 45 minutes 02:55PM 19 BY MR WONG: 02:55PM 20 Q But do you have an actual memory of spending 02:55PM 21 45 minutes on this command? 02:55PM 22 A Yes 02:55PM
5 receive fell into that category 6 BY MR WONG: 7 Q Of taking longer than 15 minutes? 9 Q For the other commands listed on Exhibit 316 that 02:51PM 10 are not the "lidp transmit" and "lidp receive" 02:51PM 11 commands 02:51PM 12 A Mm-lmm 02:51PM 13 Q do you believe that you spent approximately 02:52PM 14 15 minutes coming up with the command syntax for each of 02:52PM 15 those? 02:52PM 16 MR CANNON: Objection; vague and compound 02:52PM 17 THE WITNESS: I would say a good 50 percent of 02:52PM 18 those, but some of the commands 1 struggle with myself 02:52PM 19 to to put out the best initial proposal, so not 02:52PM 20 everything is 15 minutes Some of them took where I 02:52PM 21 went back and looked at other things and see what's the 02:52PM 22 most usable token to put there and a keyword to put 02:52PM 23 there 02:52PM	5 syntax? 02:54PM 6 A "Transmit" and "receive," the "show" commands, 02:54PM 7 "tty-select" command, "Ildp timer" command, and "Ildp 02:54PM 8 reinit" command 02:54PM 9 Q Approximately how long do you think it took you 02:54PM 10 to come up with the command syntax for the "Ildp reinit" 02:54PM 11 command? 02:54PM 12 MR CANNON: Objection; vague 02:54PM 13 THE WITNESS: I struggled with it I'm not 02:54PM 14 particularly happy with the way it is right right 02:54PM 15 here Reading it is kind of a, for lack of a better 02:54PM 16 term, awkward keyword, but I didn't have anything better 02:55PM 17 to say to use there, so I might have struggled with 02:55PM 18 it for 45 minutes 02:55PM 19 BY MR WONG: 02:55PM 20 Q But do you have an actual memory of spending 02:55PM 21 45 minutes on this command? 02:55PM 22 A Yes 02:55PM 23 Q Okay 02:55PM
5 receive fell into that category 6 BY MR WONG: 7 Q Of taking longer than 15 minutes? 9 Q For the other commands listed on Exhibit 316 that 02:51PM 10 are not the "lidp transmit" and "lidp receive" 11 commands 12 A Mm-hmn 12 A Mm-hmn 13 Q do you believe that you spent approximately 14 15 minutes coming up with the command syntax for each of 02:52PM 15 those? 16 MR CANNON: Objection; vague and compound 17 THE WITNESS: I would say a good 50 percent of 02:52PM 18 those, but some of the commands 1 struggle with myself 19 to to put out the best initial proposal, so not 02:52PM 20 everything is 15 minutes Some of them took where I 02:52PM 21 went back and looked at other things and see what's the 02:52PM 22 most usable token to put there and a keyword to put 02:52PM 23 there 02:52PM 24 BY MR WONG: 02:52PM	5 syntax? 02:54PM 6 A "Transmit" and "receive," the "show" commands, 02:54PM 7 "tly-select" command, "Ildp timer" command, and "Ildp 02:54PM 8 reinit" command 02:54PM 9 Q Approximately how long do you think it took you 02:54PM 10 to come up with the command syntax for the "Ildp reinit" 02:54PM 11 command? 02:54PM 12 MR CANNON: Objection; vague 02:54PM 13 THE WITNESS: I struggled with it I'm not 02:54PM 14 particularly happy with the way it is right right 02:54PM 15 here Reading it is kind of a, for lack of a better 02:54PM 16 term, awkward keyword, but I didn't have anything better 02:55PM 17 to say to use there, so I might have struggled with 02:55PM 18 it for 45 minutes 02:55PM 19 BY MR WONG: 02:55PM 20 Q But do you have an actual memory of spending 02:55PM 21 45 minutes on this command? 02:55PM 22 A Yes 02:55PM 23 Q Okay 02:55PM 24 A I mean, I had something else before, and I took 02:55PM
5 receive fell into that category 6 BY MR WONG: 7 Q Of taking longer than 15 minutes? 9 Q For the other commands listed on Exhibit 316 that 02:51PM 10 are not the "Itdp transmit" and "Itdp receive" 11 commands 12 A Mm-lumn 12 A Mm-lumn 13 Q do you believe that you spent approximately 14 15 minutes coming up with the command syntax for each of 02:52PM 15 those? 16 MR CANNON: Objection; vague and compound 17 THE WITNESS: I would say a good 50 percent of 18 those, but some of the commands 1 struggle with myself 19 to to put out the best initial proposal, so not 10 everything is 15 minutes Some of them took where I 10 everything is 15 minutes Some of them took where I 11 over 10 o	5 syntax? 02:54PM 6 A "Transmit" and "receive," the "show" commands, 02:54PM 7 "tty-select" command, "Ildp timer" command, and "Ildp 02:54PM 8 reinit" command 02:54PM 9 Q Approximately how long do you think it took you 02:54PM 10 to come up with the command syntax for the "Ildp reinit" 02:54PM 11 command? 02:54PM 12 MR CANNON: Objection; vague 02:54PM 13 THE WITNESS: I struggled with it I'm not 02:54PM 14 particularly happy with the way it is right right 02:54PM 15 here Reading it is kind of a, for lack of a better 02:54PM 16 term, awkward keyword, but I didn't have anything better 02:55PM 17 to say to use there, so I might have struggled with 02:55PM 18 it for 45 minutes 02:55PM 19 BY MR WONG: 02:55PM 20 Q But do you have an actual memory of spending 02:55PM 21 45 minutes on this command? 02:55PM 22 A Yes 02:55PM 23 Q Okay 02:55PM

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 93 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 93 of 122 CONFIDENTIAL

		T		
1	Q When 03:42PM	1	to both of you 03:44PM	
2	A Actually, I'm sorry, I take that back. I do have 03:42PM	2	MR WONG: Thank you 03:44PM	
3	a legal certificate I used to have a legal 03:42PM	3	THE VIDEOGRAPHER: We are off the record at 03:44PM	
4	certification. 03:42PM	4	3:45 p m This concludes today's testimony given by 03:44PM	
5	Q What kind of legal certi certification did 03:42PM	5	Devadas Patil The total number of media used was four 03:44PM	
6	you have? 03:42PM	6	and will be retained by Veritext LLC 03:44PM	
7	A I had a Series 63 at one point. 03:42PM	7	(TIME NOTED: 3:44 P M)	
8	Q Do you have any training in intellectual property 03:42PM	8		
9	law? 03:42PM	9		
10	A No. 03:42PM	10		
11	Q Did you analyze intellectual property issues when 03:42PM	11		
12	you were writing your master's thesis at MIT? 03:42PM	12		
13	A No. 03:42PM	13		
14	Q Have you reviewed any of Cisco's patents related 03:42PM	14		
15	to SysDB? 03:42PM	15		
16	A Related to SysDB, I might have glossed over a 03:42PM	16		
17	couple of them, but I've not reviewed them in detail. 03:42PM	17		
18	Q Are you aware that the administrative law judge 03:42PM	18		
19	in an International Trade Commission investigation has 03:42PM	19		
20	found that Arista's EOS software infringes Cisco patents 03:42PM	20		
21	related to SysDB? 03:42PM	21		
22	MR. WONG: Object to the form of the question. 03:43PM	22		
23	THE WITNESS: I'm now aware of it, but not before 03:43PM	23		ı
24	a few days ago. 03:43PM	24		
25	BY MR. CANNON: 03:43PM	25		
	Page 230		Page 23	32
1	Q So you were not aware of that when you wrote your 03:43PM	1	I declare under penalty of perjury	
	Q So you were not aware of that when you wrote your 03:43PM master's thesis? 03:43PM		I declare under penalty of perjury under the laws that the foregoing is	
		2		
2	master's thesis? 03:43PM	2	under the laws that the foregoing is	
2	master's thesis? 03:43PM A No. 03:43PM	2 3	under the laws that the foregoing is true and correct.	
2 3 4 5	master's thesis? 03:43PM A No. 03:43PM Q Last bit. 03:43PM	2 3 4 5	under the laws that the foregoing is true and correct.	10000
2 3 4 5 6	master's thesis? 03:43PM A No. 03:43PM Q Last bit. 03:43PM Earlier, do you remember talking about how you 03:43PM	2 3 4 5	under the laws that the foregoing is true and correct. Executed on, 20,	CHECK TO THE PARTY OF THE PARTY
2 3 4 5 6	master's thesis? 03:43PM A No. 03:43PM Q Last bit. 03:43PM Earlier, do you remember talking about how you 03:43PM weren't particularly happy sitting here today with the 03:43PM	2 3 4 5 6	under the laws that the foregoing is true and correct. Executed on, 20,	1,000
2 3 4 5 6 7	master's thesis? 03:43PM A No. 03:43PM Q Last bit. 03:43PM Earlier, do you remember talking about how you 03:43PM weren't particularly happy sitting here today with the 03:43PM "Ildp reinit" command? 03:43PM	2 3 4 5 6 7	under the laws that the foregoing is true and correct. Executed on, 20,	Haran Anna Anna Anna Anna Anna Anna Anna
2 3 4 5 6 7 8 9	master's thesis? 03:43PM A No. 03:43PM Q Last bit. 03:43PM Earlier, do you remember talking about how you 03:43PM weren't particularly happy sitting here today with the "Ildp reinit" command? 03:43PM A Yes. 03:43PM Q Why aren't you happy about that, sitting here 03:43PM	2 3 4 5 6 7 8	under the laws that the foregoing is true and correct. Executed on	THE CONTRACT OF THE CONTRACT O
2 3 4 5 6 7 8 9	master's thesis? 03:43PM A No. 03:43PM Q Last bit. 03:43PM Earlier, do you remember talking about how you 03:43PM weren't particularly happy sitting here today with the 03:43PM "Ildp reinit" command? 03:43PM A Yes. 03:43PM Q Why aren't you happy about that, sitting here 03:43PM	2 3 4 5 6 7 8 9	under the laws that the foregoing is true and correct. Executed on	11000
2 3 4 5 6 7 8 9 10	master's thesis? A No. O3:43PM Q Last bit. O3:43PM Earlier, do you remember talking about how you weren't particularly happy sitting here today with the "Ildp reinit" command? A Yes. O3:43PM Q Why aren't you happy about that, sitting here O3:43PM today? O3:43PM	2 3 4 5 6 7 8 9	under the laws that the foregoing is true and correct. Executed on	TERMINE STATE OF THE STATE OF T
2 3 4 5 6 7 8 9 10 11 12	master's thesis? 03:43PM A No. 03:43PM Q Last bit. 03:43PM Earlier, do you remember talking about how you 03:43PM weren't particularly happy sitting here today with the 03:43PM "Ildp reinit" command? 03:43PM A Yes. 03:43PM Q Why aren't you happy about that, sitting here 03:43PM today? 03:43PM A It's not about just today. I was not happy to 03:43PM	2 3 4 5 6 7 8 9 10	under the laws that the foregoing is true and correct. Executed on	Tippin and the second s
2 3 4 5 6 7 8 9 10 11 12 13	master's thesis? A No. O3:43PM Q Last bit. O3:43PM Earlier, do you remember talking about how you weren't particularly happy sitting here today with the "Ildp reinit" command? A Yes. O3:43PM Q Why aren't you happy about that, sitting here today? O3:43PM A It's not about just today. I was not happy to O3:43PM begin with it to begin with, because I struggled with O3:43PM	2 3 4 5 6 7 8 9 10 11	under the laws that the foregoing is true and correct. Executed on	1 TOOLS
2 3 4 5 6 7 8 9 10 11 12 13 14	master's thesis? A No. O3:43PM Q Last bit. O3:43PM Earlier, do you remember talking about how you Weren't particularly happy sitting here today with the "Ildp reinit" command? O3:43PM A Yes. O3:43PM Q Why aren't you happy about that, sitting here O3:43PM A It's not about just today. I was not happy to O3:43PM begin with it to begin with, because I struggled with O3:43PM it a lot, and I couldn't come up with a nice term to O3:43PM	2 3 4 5 6 7 8 9 10 11 12 13	under the laws that the foregoing is true and correct. Executed on	1900
2 3 4 5 6 7 8 9 10 11 12 13 14	master's thesis? A No. O3:43PM Q Last bit. O3:43PM Earlier, do you remember talking about how you Weren't particularly happy sitting here today with the "Ildp reinit" command? O3:43PM A Yes. O3:43PM Q Why aren't you happy about that, sitting here O3:43PM A It's not about just today. I was not happy to O3:43PM begin with it to begin with, because I struggled with O3:43PM it a lot, and I couldn't come up with a nice term to O3:43PM mean reinit, reinitialize, and, yeah, that was the O3:43PM	2 3 4 5 6 7 8 9 10 11 12 13 14	under the laws that the foregoing is true and correct. Executed on	1000
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	master's thesis? A No. O3:43PM Q Last bit. O3:43PM Earlier, do you remember talking about how you Weren't particularly happy sitting here today with the Willdp reinit" command? O3:43PM A Yes. O3:43PM Q Why aren't you happy about that, sitting here O3:43PM A It's not about just today. I was not happy to D3:43PM A It's not about just today. I was not happy to D3:43PM begin with it to begin with, because I struggled with O3:43PM it a lot, and I couldn't come up with a nice term to O3:43PM mean reinit, reinitialize, and, yeah, that was the O3:43PM source of my dissatisfaction with it. O3:43PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15	under the laws that the foregoing is true and correct. Executed on	The control of the co
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	master's thesis? A No. O3:43PM Q Last bit. O3:43PM Earlier, do you remember talking about how you weren't particularly happy sitting here today with the "Ildp reinit" command? A Yes. O3:43PM Q Why aren't you happy about that, sitting here O3:43PM A It's not about just today. I was not happy to O3:43PM A It's not about just today. I was not happy to O3:43PM it a lot, and I couldn't come up with a nice term to O3:43PM mean reinit, reinitialize, and, yeah, that was the O3:43PM Source of my dissatisfaction with it. O3:43PM O Do you recall alternatives to "reinit" that you O3:43PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	under the laws that the foregoing is true and correct. Executed on	The state of the s
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	master's thesis? A No. O3:43PM Q Last bit. O3:43PM Earlier, do you remember talking about how you Weren't particularly happy sitting here today with the "Ildp reinit" command? O3:43PM A Yes. O3:43PM Q Why aren't you happy about that, sitting here O3:43PM A It's not about just today. I was not happy to O3:43PM begin with it to begin with, because I struggled with O3:43PM it a lot, and I couldn't come up with a nice term to O3:43PM mean reinit, reinitialize, and, yeah, that was the O3:43PM source of my dissatisfaction with it. O3:43PM OD you recall alternatives to "reinit" that you O3:43PM considered at the time? O3:43PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	under the laws that the foregoing is true and correct. Executed on	A DEPOSIT OF THE PROPERTY OF T
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	master's thesis? A No. O3:43PM Q Last bit. O3:43PM Earlier, do you remember talking about how you Weren't particularly happy sitting here today with the "Ildp reinit" command? O3:43PM A Yes. O3:43PM Q Why aren't you happy about that, sitting here O3:43PM A It's not about just today. I was not happy to O3:43PM A It's not about just today. I was not happy to O3:43PM begin with it to begin with, because I struggled with O3:43PM it a lot, and I couldn't come up with a nice term to O3:43PM mean reinit, reinitialize, and, yeah, that was the O3:43PM source of my dissatisfaction with it. O3:43PM Q Do you recall alternatives to "reinit" that you O3:43PM considered at the time? O3:43PM A I like I said, I spent 45 minutes on it, and O3:44PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	under the laws that the foregoing is true and correct. Executed on	A TOTAL CONTRACTOR CON
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	master's thesis? A No. O3:43PM Q Last bit. O3:43PM Earlier, do you remember talking about how you Weren't particularly happy sitting here today with the "Ildp reinit" command? O3:43PM A Yes. O3:43PM Q Why aren't you happy about that, sitting here O3:43PM A It's not about just today. I was not happy to O3:43PM begin with it to begin with, because I struggled with O3:43PM begin with it come up with a nice term to O3:43PM mean reinit, reinitialize, and, yeah, that was the O3:43PM source of my dissatisfaction with it. O3:43PM Q Do you recall alternatives to "reinit" that you O3:43PM considered at the time? O3:43PM A I like I said, I spent 45 minutes on it, and O3:44PM that's the best I could come up with, and given the time O3:44PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	under the laws that the foregoing is true and correct. Executed on	100 mm and 100 mm and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	master's thesis? A No. O3:43PM Q Last bit. O3:43PM Earlier, do you remember talking about how you Weren't particularly happy sitting here today with the Wildp reinit" command? O3:43PM A Yes. O3:43PM Q Why aren't you happy about that, sitting here O3:43PM A It's not about just today. I was not happy to O3:43PM A It's not about just today. I was not happy to O3:43PM it a lot, and I couldn't come up with a nice term to O3:43PM mean reinit, reinitialize, and, yeah, that was the O3:43PM source of my dissatisfaction with it. O3:43PM Q Do you recall alternatives to "reinit" that you O3:43PM A I like I said, I spent 45 minutes on it, and O3:44PM that's the best I could come up with, and given the time O3:44PM pressure, I had to propose it and move with it. O3:44PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	under the laws that the foregoing is true and correct. Executed on	THE CONTRACT
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	master's thesis? A No. O3:43PM Q Last bit. O3:43PM Earlier, do you remember talking about how you Weren't particularly happy sitting here today with the O3:43PM "Ildp reinit" command? O3:43PM A Yes. O3:43PM Q Why aren't you happy about that, sitting here O3:43PM A It's not about just today. I was not happy to O3:43PM A It's not about just today. I was not happy to O3:43PM it a lot, and I couldn't come up with a nice term to O3:43PM mean reinit, reinitialize, and, yeah, that was the O3:43PM source of my dissatisfaction with it. O3:43PM Q Do you recall alternatives to "reinit" that you O3:43PM considered at the time? O3:43PM A I like I said, I spent 45 minutes on it, and O3:44PM that's the best I could come up with, and given the time O3:44PM pressure, I had to propose it and move with it. O3:44PM MR. CANNON: Nothing further for me right now. O3:44PM MR. CANNON: Nothing further for me right now. O3:44PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	under the laws that the foregoing is true and correct. Executed on	The state of the s
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	master's thesis? A No. O3:43PM Q Last bit. O3:43PM Earlier, do you remember talking about how you Weren't particularly happy sitting here today with the O3:43PM "Ildp reinit" command? O3:43PM A Yes. O3:43PM Q Why aren't you happy about that, sitting here O3:43PM A It's not about just today. I was not happy to O3:43PM A It's not about just today. I was not happy to O3:43PM begin with it to begin with, because I struggled with O3:43PM it a lot, and I couldn't come up with a nice term to O3:43PM mean reinit, reinitialize, and, yeah, that was the O3:43PM source of my dissatisfaction with it. O3:43PM O Do you recall alternatives to "reinit" that you O3:43PM considered at the time? O3:43PM A I like I said, I spent 45 minutes on it, and O3:44PM that's the best I could come up with, and given the time O3:44PM MR. CANNON: Nothing further for me right now. O3:44PM MR. CANNON: Nothing further for me right now. O3:44PM MR. WONG: We're done. O3:44PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	under the laws that the foregoing is true and correct. Executed on	THE TAXABLE STATE OF TAXABLE STATE OF TAXAB
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	master's thesis? A No. O3:43PM Q Last bit. O3:43PM Earlier, do you remember talking about how you Weren't particularly happy sitting here today with the O3:43PM "Ildp reinit" command? O3:43PM A Yes. O3:43PM Q Why aren't you happy about that, sitting here O3:43PM today? O3:43PM A It's not about just today. I was not happy to O3:43PM begin with it to begin with, because I struggled with O3:43PM begin with it reinitialize, and, yeah, that was the O3:43PM source of my dissatisfaction with it. O3:43PM Q Do you recall alternatives to "reinit" that you O3:43PM A I like I said, I spent 45 minutes on it, and O3:44PM that's the best I could come up with, and given the time O3:44PM MR. CANNON: Nothing further for me right now. O3:44PM MR. WONG: We're done. O3:44PM THE WITNESS: Great. O3:44PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	under the laws that the foregoing is true and correct. Executed on	TOTAL TOTAL

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 94 of 122

1	I, the undersigned, a Certified Shorthand	
2	Reporter of the State of California, do hereby certify:	
3	That the foregoing proceedings were taken before	
4	me at the time and place herein set forth; that any	
5	witnesses in the foregoing proceedings, prior to	
6	testifying, were placed under oath; that a verbatim	
7	record of the proceedings was made by me using machine	
8	shorthand which was thereafter transcribed under my	
9	direction; further, that the foregoing is an accurate	
10	transcription thereof.	
11	I further certify that I am neither financially	
12	interested in the action nor a relative or employee of	
13	any attorney or any of the parties.	
14	IN WITNESS WHEREOF, I have this date subscribed	·
15	my name.	
16	Dated: March 2, 2016	
17		
18		
19		
20	<u> B</u>	
21	RACHEL FERRIER	
22	CSR No. 6948	
23		
24		
25	B 024	
	Page 234	
	·	
		!

Case 5:14-cv-05344-BLF Document 613-11 Filed 11/08/16 Page 95 of 122

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 95 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

```
UNITED STATES DISTRICT COURT
 1
 2
                 NORTHERN DISTRICT OF CALIFORNIA
                        SAN JOSE DIVISION
 3
 4
      CISCO SYSTEMS, INC. Case No.: 5:14-cv-05344-BLF(PSG)
 5
                    Plaintiff,
 6
           v.
 7
      ARISTA NETWORKS, INC.
 8
                   Defendants.
 9
10
11
12
         * HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY *
13
14
           VIDEOTAPED DEPOSITION OF PHILLIP REMAKER
15
                30(b)(6) FOR CISCO SYSTEMS, INC.
16
                     Palo Alto, California
17
                    Thursday, March 31, 2016
18
19
                             Volume 1
20
21
     Reported by:
22
     LESLIE JOHNSON
23
     RPR, CSR No. 11451
24
     Job No.: 2281749
25
     PAGES 1 - 216
                                                          Page 1
```

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 96 of 122

,		
	LINUTED CTATES DISTRICT COURT	1 INDEX
1	UNITED STATES DISTRICT COURT	1 INDEX
2	FOR THE NORTHERN DISTRICT OF CALIFORNIA	2 3 WITNESS EXAMINATION
. 3	SAN JOSE DIVISION	3 WITNESS EXAMINATION 4 PHILLIP REMAKER
4	CISCO SYSTEMS, INC Case No : 5:14-cv-05344-BLF(PSG)	30(b)(6) for CISCO SYSTEMS 5 Volume 1
5	-1.4.400	6 BY MR. WONG 8
	Plaintiff,	7 BY MR. NEUKOM 212
6		8
	v	9 EXHIBITS
7	ARISTA NETWORKS, INC	10 PHILLIP REMAKER, 30(b)(6) 11 NUMBER DESCRIPTION PAGE
8		12 Exhibit 429 Defendant Arista Network, Inc.'s 9
	Defendants	Notice of 30(b)(6) Deposition of
9		13 Plaintiff Cisco Systems, Inc.;
10		33 pages
11		Exhibit 430 Amended Exhibit F Document Index; 11
12		15 40 pages
13		16 Exhibit 431 Amended Exhibit F; 44 pages 14
14	* HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY *	17 Exhibit 432 Binder labeled "Bates Does Cited 15
15		in Cisco Rog Exhibit F," Volume 1
16		18 of 2
17	VIDEOTAPED DEPOSITION OF PHILLIP REMAKER, Volume	
18	taken on behalf of Defendant, at 601 California Avenue,	in Cisco Rog Exhibit F," Volume 2 20 of 2
19	Palo Alto, California, beginning at 9:30 a m and ending	21 Exhibit 434 Binder labeled "Source Code Cited 15
20	at 4:14 p m, on Thursday, March 31, 2016, before	in Cisco Rog Exhibit F," Volume 1
21	LESLIE JOHNSON, Certified Shorthand Reporter No 11451	22 of 2
22		23 Exhibit 435 Binder labeled "Source Code Cited 15
23 24		in Cisco Rog Exhibit F," Volume 2
25		24 of 2
25	Page 2	25 Page 4
1	APPEARANCES:	1 EXHIBITS (Cont)
2		2 PHILLIP REMAKER, 30(b)(6)
3	FOR PLAINTIFF CISCO SYSTEMS, INC.:	3 NUMBER DESCRIPTION PAGE 4 Exhibit 436 E-mail dated 1/12/99 from Phillip 40
1	,	Remaker to Carl Schaefer, et al;
4	QUINN EMANUEL URQUHART & SULLIVAN LL	Butes stamped CDI CDI -0075 1351 to 55
5	BY: JOHN (JAY) NEUKOM, ESQ.	6 Exhibit 43.7 E-mail dated 6/7/2003 from Shaubin 80 Xie; Bates stamped CSI-CLI-00783473
6	50 California Street, 22nd Floor	7 to 81
7	San Francisco, California 94111	8 Exhibit 438 Parser-Police Manifesto, version 6; 82
8	(415)875-6600	10 pages 9
9	johnneukom@quinnemanuel.com	Exhibit 439 CLI Design and Review Guide: Bates 85
10	FOR DEFENDANT ARISTA NETWORKS, INC.:	10 stamped CSI-CLI-02824651 to 719
1	-	11 Exhibit 440 E-mail thread, top e-mail dated 87 7/8/2005, from Jain Dhanendra; Bates
11	KEKER & VAN NEST LLP	12 stamped CSI-CLI-00807444 to 68
12	BY: RYAN WONG, ESQ.	13 Exhibit 441 Interrogatory No 2 First Supplemental 98
13	633 Battery Street	Response - Exhibit C; 3 pages
14	San Francisco, California 94111	Exhibit 442 Document entitled "Show Inventory 104
15	(415)391-5400	15 Command"; Bates stamped CSI-CLI-610102
16	rwong@kvn.com	to 610105
1		16 Exhibit 443 E-mail dated 12/6/2002 from Eric 114
17	ALSO PRESENT:	17 Osborne; Bates stamped CSI-CLI-777457
18	SEAN GRANT, Videographer	to 459
19		Exhibit 444 Interrogatory No 2 First Supplemental 122
20		19 Response - Exhibit B; 102 pages
21		20 Exhibit 445 E-mail dated 25 June 2002 from Ilse 151
22		Van Hoeck; Bates stamped 21 CSI-CLI-00608702 to 703
23		21 CSI-CLI-00608702 to 703 22 Exhibit 446 E-mail dated 17 May 1999 from Liming 159
		Wei; Bates stamped CSI-CLI-60866
24		23
25		24 25
	Page 3	Page 5
	2	

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 97 of 122

		1	1
1	EXHIBITS (Cont.)	1	plaintiff.
2	PHILLIP REMAKER, 30(b)(6)	2	THE VIDEOGRAPHER: Thank you. Will the
3 4	NUMBER DESCRIPTION PAGE Exhibit 447 Plaintiff Cisco Systems, Inc.'s Seventh 164	3	certified court reporter please swear in the
	Supplemental Objections and Responses	4	witness.
5	to Defendant Arista Network, Inc.'s	5	
6	Second Set of Interrogatories (No. 16); 50 pages	6	PHILLIP REMAKER,
7	Exhibit 448 Plaintiff Cisco System, Inc.'s Fourth 167	7	having been first duly sworn, was examined
	Supplemental Objections and Responses	8	and testified as follows:
8	to Defendant Arista Network, Inc's First Set of Interrogatories (2 and 5);	9	and testified as follows.
9	44 pages	10	EXAMINATION
10	Exhibit 449 Cisco's Response to Arista's 182	11	BY MR. WONG:
11	Interrogatory No. 16 Amended Exhibit D1 (IOS Release 11.0); 28 pages	12	
12	Exhibit 450 Exhibit E Exemplary Copying of Command 201	13	Q. Good morning, Mr. Remaker.
	Responses; 27 pages	1	A. Good morning.
13	Exhibit 451 Writing Command Line Interfaces (CLI) 204	14	Q. Do you understand that you are testifying
14	and CLI Output; Bates stamped	15	under oath?
	CSI-CLI-02607986 to 8010	16	A. I understand.
15	* * *	17	Q. Okay. And I know we took your personal
16		18	deposition yesterday. Do you understand that the
17		19	general rules for conducting a deposition are also
18 19		20	applicable today?
20		21	A. Yes.
21		22	Q. Do you understand that you have been
22 23		23	designated by Plaintiff Cisco to provide corporate
24		24	testimony under Rule 30(b)(6) today?
25		25	A. Yes.
~	Page 6		Page 8
1	Palo Alto, California, Thursday, March 31, 2016	1	(Exhibit 429 marked for identification.)
2	9:30 a.m.	2	MR. WONG: Let's mark this as the first
3	710 V MINII	3	deposition exhibit. I believe we are on 429.
4	THE VIDEOGRAPHER: Good morning. We're o		THE REPORTER: Correct.
5	the record. The time is 9:30 a m. and the date is	5	BY MR. WONG:
6	March 31st, 2016. This begins the videotaped	6	Q. The court reporter has marked Exhibit 429.
7	deposition of Cisco Systems, Inc. pursuant to Rule	7	a document that on its face says "Defendant Arista
8	30(b)(6). My name is Sean Grant, here with our	8	· · · · · · · · · · · · · · · · · · ·
9	court reporter, Leslie Johnson. We're here from	9	Network, Inc.'s Notice of Rule 30(b)(6) Deposition of Plaintiff Cisco Systems Inc."
10	Veritext Legal Solutions at the request of counsel	10	of Plaintiff Cisco Systems, Inc."
11	= -		Mr. Remaker, do you recognize the document marked as Exhibit 429?
	for Defendant. This deposition is being held at	11	
12	Wilson Sonsini in Palo Alto, California.	12	MR. NEUKOM: It might help you to turn to
13	The caption of this case is Cisco Systems	13	page 23.
14	Inc. versus Arista Networks, Inc., Case No.	14	MR. WONG: Thank you, Counsel.
15	5:14-cv-05344-BLF.	15	MR. NEUKOM: Start with paragraph 78.
16	Please note that audio and video recording	16	THE WITNESS: Yes, I recognize this
17	will take place unless all parties have agreed to go	17	document.
18	off the record. Microphones are sensitive and may	18	BY MR. WONG:
19	pick up whispers, private conversations or cellular	19	Q. Do you understand that you have been
20	interference.	20	designated by Cisco to provide corporate testimony
21	At this time, will counsel please identify	21	for topic No. 78 that appears on page 23 of
22	themselves and state whom they represent.	22	Exhibit 429?
23	MR. WONG: Ryan Wong from Keker & Van Nes	23	A. Yes.
24	for Defendant Arista Networks.	24	Q. Do you understand that you've been
25	MR. NEUKOM: John Neukom for the	25	designated by Cisco to provide corporate testimony
	Page 7		Page 9

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 98 of 122

F		T	
1	answered.	1	group, the Parser Police mailing list, and any other
2	THE WITNESS: Cisco trusts the engineers	2	related mailing lists run by individual
3	that they hired that are experts in the topic.	3	organizations.
4	BY MR. WONG:	4	Q. Anything else?
5	Q. Mr. Remaker, did you review any deposition	5	A. Nothing I can think of off the top of my
6	testimony provided in this case to prepare for this	6	head.
7	corporate deposition?	7	Q. Is customer feedback a potential resource
8	A. Yes.	8	for an employee who is creating a new CLI command
9	Q. Did you review the deposition transcript	9	MR. NEUKOM: Objection. The question
10	of Mr. Patel?	10	phrased in a hypothetical.
11	A. I did not.	11	THE WITNESS: Customer feedback may be
12	Q. In the process of adding a new CLI command	12	used in the creation of a new CLI command.
13	to a Cisco operating system, is there a preferred or	13	BY MR. WONG:
14	best practice development approach that are followed		Q. Are industry standards resources that may
15	by Cisco engineers?	15	be used by Cisco employees to create CLI commands?
16	MR. NEUKOM: Objection. Asked and	16	MR. NEUKOM: Objection. Vague. Calls for
17	answered. Also vague and compound.	17	a legal solution.
	THE WITNESS: Is there a best practice	18	THE WITNESS: Development engineers may
18	-		use standards in the preparation of CLI commands.
19	for?	19	· ·
20	BY MR. WONG:	20	BY MR. WONG:
21	Q. The development of and creation of a new	21	Q. And that includes IEEE standards, correct.
22	CLI command to be added to the operating system?	22	MR. NEUKOM: Objection. Vague and
23	And let me just give you some context.	23	compound,
24	Mr. Patel testified about a five-stage	24	THE WITNESS: That is my understanding.
25	development process for adding new features to the	25	////
	Page 154		Page 156
1	Cisco's CLI and described how proposing the new CLI	. 1	BY MR. WONG:
1 2	Cisco's CLI and described how proposing the new CLI	1 2	·
2	commands for those features, what stages those were	2	Q. That could also include IETF standards,
2	commands for those features, what stages those were done in.	2	Q. That could also include IETF standards, correct?
2 3 4	commands for those features, what stages those were done in. A. Okay.	2 3 4	Q. That could also include IETF standards, correct? A. That is my understanding.
2 3 4 5	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was	2 3 4 5	 Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the
2 3 4 5 6	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar	2 3 4 5 6	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may
2 3 4 5 6 7	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage	2 3 4 5 6 7	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command?
2 3 4 5 6 7 8	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development.	2 3 4 5 6 7 8	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and
2 3 4 5 6 7 8 9	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development. So my question to you is: Is there a	2 3 4 5 6 7 8 9	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and compound.
2 3 4 5 6 7 8 9	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development. So my question to you is: Is there a preferred approach at Cisco to come up with new CLI	2 3 4 5 6 7 8 9	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look
2 3 4 5 6 7 8 9 10	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development. So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality	2 3 4 5 6 7 8 9 10	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code?
2 3 4 5 6 7 8 9 10 11	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development. So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices?	2 3 4 5 6 7 8 9 10 11	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG:
2 3 4 5 6 7 8 9 10 11 12 13	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development. So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual	2 3 4 5 6 7 8 9 10 11 12	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh.
2 3 4 5 6 7 8 9 10 11 12 13	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development. So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group.	2 3 4 5 6 7 8 9 10 11 12 13	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development. So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development. So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development. So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development. So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is that right?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax? A. Beyond what they're not allowed to consult
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development. So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is that right? A. I would have to look at each individual	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax? A. Beyond what they're not allowed to consult with in general, based on the terms of employment,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development. So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is that right? A. I would have to look at each individual development group.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax? A. Beyond what they're not allowed to consult with in general, based on the terms of employment, I'm not aware of any specific restrictions.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development. So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is that right? A. I would have to look at each individual development group. Q. What resources are available for an	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax? A. Beyond what they're not allowed to consult with in general, based on the terms of employment, I'm not aware of any specific restrictions. Q. Are Cisco employees free to rely upon
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development. So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is that right? A. I would have to look at each individual development group. Q. What resources are available for an engineer to consult when coming up with a new CLI	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax? A. Beyond what they're not allowed to consult with in general, based on the terms of employment, I'm not aware of any specific restrictions. Q. Are Cisco employees free to rely upon their own experiences working with non-Cisco CLI's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development. So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is that right? A. I would have to look at each individual development group. Q. What resources are available for an engineer to consult when coming up with a new CLI command?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax? A. Beyond what they're not allowed to consult with in general, based on the terms of employment, I'm not aware of any specific restrictions. Q. Are Cisco employees free to rely upon their own experiences working with non-Cisco CLI's when coming up with new CLI commands for Cisco IOS?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development. So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is that right? A. I would have to look at each individual development group. Q. What resources are available for an engineer to consult when coming up with a new CLI command? A. The resources include specific documents	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax? A. Beyond what they're not allowed to consult with in general, based on the terms of employment, I'm not aware of any specific restrictions. Q. Are Cisco employees free to rely upon their own experiences working with non-Cisco CLI's when coming up with new CLI commands for Cisco IOS? MR. NEUKOM: Objection. Vague.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development. So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is that right? A. I would have to look at each individual development group. Q. What resources are available for an engineer to consult when coming up with a new CLI command? A. The resources include specific documents in the development process for each individual	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax? A. Beyond what they're not allowed to consult with in general, based on the terms of employment, I'm not aware of any specific restrictions. Q. Are Cisco employees free to rely upon their own experiences working with non-Cisco CLI's when coming up with new CLI commands for Cisco IOS? MR. NEUKOM: Objection. Vague. Hypothetical.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	commands for those features, what stages those were done in. A. Okay. Q. And he testified that he thought this was called the waterfall approach. I wasn't familiar with that, but he described it as a five-stage approach to development. So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is that right? A. I would have to look at each individual development group. Q. What resources are available for an engineer to consult when coming up with a new CLI command? A. The resources include specific documents	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q. That could also include IETF standards, correct? A. That is my understanding. Q. And is the existing command set in the Cisco CLI another resource that an engineer may consult when coming up with a new CLI command? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax? A. Beyond what they're not allowed to consult with in general, based on the terms of employment, I'm not aware of any specific restrictions. Q. Are Cisco employees free to rely upon their own experiences working with non-Cisco CLI's when coming up with new CLI commands for Cisco IOS? MR. NEUKOM: Objection. Vague.

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 99 of 122

1	estimate for us the number of documents the	1	REPORTER'S CERTIFICATION
2	number of historical Cisco documents you reviewed t		
3	prepare yourself to testify today as a corporate	3	I, Leslie Johnson, a Certified Shorthand
4	representative?	4	Reporter of the State of California, do hereby certify:
5	A. Easily 60 to 100 documents.	5	That the foregoing proceedings were taken
6	Q. And can you describe by category what	6	before me at the time and place herein set forth; that
7	sorts of documents you reviewed to prepare yourself	7 8	any witnesses in the foregoing proceedings, prior to
8	to come testify today about the historical	9	testifying, were administered an oath; that a record of the proceedings was made by me using machine shorthan
9	origination of Cisco command line expressions?	10	which was thereafter transcribed under my direction;
10	A. Individual command specifications written	11	that the foregoing transcript is a true record of the
11	by engineers, source code, some e-mails, some	12	testimony given.
12	internal web pages, and the deposition of Kirk	1 -2	Further, that if the foregoing pertains to
13	Lougheed.	13	the original transcript of a deposition in a Federal
14	Q. Do you believe there is anybody within	14	Case, before completion of the proceedings, review
15	Cisco who knows more about the historical creation	15	of the transcript [] was [] was not requested.
16	of the 500-plus command line expressions identified	16	I further certify I am neither financially interested in
17	in Exhibit 431, other than you?	17	the action nor a relative or employee of any attorney or
18	·	18	any party to this action.
	A. No.	19	IN WITNESS WHEREOF, I have this date
19	MR. NEUKOM: Thanks very much.		subscribed my name.
20	MR. WONG: Thank you.	20	Dated: April 15, 2016
21	THE VIDEOGRAPHER: This concludes today's	21	
22	videotaped deposition of Cisco Systems, Inc.	22	
23	pursuant to Rule 30(b)(6).	23	<%signature%>
24	We're off the record at 4:14 p m.	24	LESLIE JOHNSON
25	(TIME NOTED: 4:14 p m.)	25	CSR No. 11451, RPR, CCRR
	Page 214	-	Page 216
1			
1	DECLARATION UNDER PENALTY OF PERJURY		
2	I DUIL I ID DEMANTED the section of the section		
3	I, PHILLIP REMAKER, the witness herein,		
4	declare under penalty of perjury that I have read the		
5	foregoing in its entirety; and that the testimony		
6	contained therein, as corrected by me, is a true and		
7	accurate transcription of my testimony elicited at said		
8	time and place.		
9			
10	Executed this day of 2016, at		
11		•	
12	(City) (State)		
13			
14			
15			
16			
17			
18	PHILLIP REMAKER		
19			
20			
21			
22			
23			
24			
25			
	Page 215		

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 100 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

```
1
                     UNITED STATES DISTRICT COURT
  2
                   NORTHERN DISTRICT OF CALIFORNIA
  3
                           SAN JOSE DIVISION
 4
 5
 6
      CISCO SYSTEMS, INC.,
 7
                 Plaintiff,
 8
           vs.
                                     ) Case No.:
                                     ) 5:14-cv-05344-BLF(PSG)
 9
      ARISTA NETWORKS, INC.,
                 Defendant.
10
11
12
13
             ATTORNEYS' EYES ONLY - HIGHLY CONFIDENTIAL
14
                 VIDEOTAPED DEPOSITION OF ABHAY ROY
15
                        Palo Alto, California
16
                      Friday, December 18, 2015
                               Volume 1
17
18
19
20
21
     Reported by:
22
     RACHEL FERRIER
     CSR No. 6948
23
24
     Job No. 2200521
25
     PAGES 1 - 232
                                                        Page 1
```

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 101 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

```
UNITED STATES DISTRICT COURT
                                                              1 APPEARANCES (continued):
  2
          NORTHERN DISTRICT OF CALIFORNIA
                                                              2
  3
              SAN JOSE DIVISION
                                                              3 For Defendant ARISTA NETWORKS, INC.:
  4
                                                              4
                                                                    KEKER & VAN NEST, LLP
  5
                                                              5
                                                                    BY: DAVID J. SILBERT
  6 CISCO SYSTEMS, INC.,
                                                              6
                                                                    ELIZABETH K. McCLOSKEY
                                                              7
                                                                    Attorneys at Law
  7
         Plaintiff,
                                                              8
                                                                    633 Battery Street
                                                              9
  8
                    )Case No.:
                                                                    San Francisco, CA 94111
                   )5:14-cv-05344-BLF(PSG)
                                                             10
                                                                    415.676.2269
  9 ARISTA NETWORKS, INC.,
                                                             11
                                                                    dsilbert@kvn.com
                                                            12
                                                                    emccloskey@kvn.com
 10
         Defendant.
                                                            13
 11
                                                            14 Videographer:
12
                                                            15
                                                                    CASSIA LEET
 13
       VIDEOTAPED DEPOSITION OF ABHAY ROY, VOLUME 1
                                                            16
 14 taken on behalf of the Defendant, at Wilson Sonsini
 15 Goodrich & Rosati, 601 California Avenue, Palo Alto,
                                                            17
 16 California, beginning at 9:30 a.m. and ending at
                                                            18
17 4:47 p.m. on Friday, December 18, 2015, before
                                                            19
18 RACHEL FERRIER, Certified Shorthand Reporter No. 6948.
                                                            20
                                                            21
20
21
                                                            22
22
                                                            23
23
                                                            24
24
                                                            25
25
                                                     Page 2
                                                                                                                Page 4
                                                                          INDEX
 1 APPEARANCES:
                                                            2 WITNESS
                                                                                     EXAMINATION
 2
                                                            3 ABHAY ROY
                                                              VOLUME 1
 3 For Plaintiff CISCO SYSTEMS, INC., and the Witness:
      QUINN EMANUEL URQUHART & SULLIVAN LLP
                                                                        BY MR SILBERT 10, 87, 219
 5
      BY: JOHN M. NEUKOM
                                                            8
 6
      Attorney at Law
                                                                         EXHIBITS
                                                            10 NUMBER
                                                                             DESCRIPTION
                                                                                               PAGE
 7
      50 California Street, 22nd Floor
                                                            11 Exhibit 51 LinkedIn Profile for
 8
      San Francisco, CA 94111
                                                                    Abhay Roy
                                                            12
 9
      415.875.6320
                                                              Exhibit 52 Cisco IOS Master Command
10
      johnneukom@quinnemanuel.com
                                                            13
                                                                    List, All Releases
11 and
                                                            14 Exhibit 53 CLI Design and Review
12
      QUINN EMANUEL URQUHART & SULLIVAN LLP
                                                                    (Bates CSI-ANI-00073381 -
13
      BY: SIDNEY ARCHIBALD
                                                                    00073381 000014)
                                                            16
14
      Attorney at Law
                                                              Exhibit 54 Cisco's Third Supplemental
15
      555 Twin Dolphin Drive, 5th Floor
                                                                    Response to Interrogatory
                                                                    No 16 and Response to
16
      Redwood Shores, CA 94065
                                                           18
                                                                    Interrogatory No 19
17
      650.801.5000
                                                                    Amended Exhibit F
                                                                                           57
                                                           19
18
      sydneyarchibald@quinnemanuel.com
                                                              Exhibit 55 Bidirectional Forwarding
19
                                                           20
                                                                    Detection (BFD) for IPv4
                                                                    and IPv6 (Single Hop)
20
                                                           21
                                                                    (Bates ARISTANDCA00030805 -
21
                                                                    00030811)
22
                                                              Exhibit 56 The OSPF Specification
23
                                                           23
                                                                    (Bates ARISTANDCA00022597 -
                                                                    00022703)
24
                                                           24
25
                                                           25
                                                    Page 3
                                                                                                               Page 5
```

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 102 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

night i confidential	THIORICIS ELES ONE
1 EXHIBITS	1 INDEX (Continued):
2 NUMBER DESCRIPTION PAGE 3 Exhibit 57 Bidirectional Forwarding	2 PREVIOUSLY MARKED EXHIBITS
Detection (BFD)	3 EXHIBIT PAGE
4 (Bates ARISTANDCA00030756 - 00030804) 99	
5 Exhibit 58 Internet Protocol,	4 29 75
6 Version 6 (IPv6)	5 (Retained by Counsel)
Specification 7 (Bates ARISTANDCA00025710 -	6
00025746) 105	7 INSTRUCTION NOT TO ANSWER
8 Exhibit 59 OSPF Commands: ip ospf	8 Page Line
9 fast-reroute per-pretix through R 130	9 57 23
10	10
Exhibit 60 CSCdi42640 11 (Bates CSI-CLI-01542004) 137	11
12 Exhibit 61 CSCdj 76740 140	12
13 Exhibit 62 CSCdj76740 140 14 Exhibit 63 Screen shot of a webpage	13
titled "Do you have 15 knowledge of IPR in	14
draft-ietf-isis-mi" 169	15
16 Exhibit 64 Screen shot of a webpage	
17 titled "Re:[68ATTENDEES]	16
RFC Author License 18 Execution Opportunity" 171	17
19 Exhibit 65 E-mail chain dated 11/23/15 to Leo Boulton,	18
20 et al , from Brian	19
Jackson 21 (Bates CSI-CLI-01 477442 -	20
01477448) 179	21
Exhibit 66 E-mail chain dated 9/8/15	22
23 from Umesh Dudani to Abhay Roy	23
24 (Bates CSI-CLI-01438733 -	24
01438743) 193 25	25
Page 6	Page 8
1 EXHIBITS	1 Palo Alto Californio Eriday Dagambar 18 2015
2 NUMBER DESCRIPTION PAGE	1 Palo Alto, California; Friday, December 18, 2015
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13	2 9:30 a m
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al	2 9:30 a m 3 09:30 AM
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al (Bates CSI-CLI-01483915 -	2 9:30 a m 3 09:30 AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30 AM
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al	2 9:30 a m 3 09:30 AM
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al (Bates CSI-CLI-01483915 - 5 01483921) 201 6 Exhibit 68 E-mail chain dated 9/16/15 from Shane Corban to Yong	2 9:30 a m 3 09:30 AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30 AM
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al (Bates CSI-CLI-01483915 - 5 01483921) 201 6 Exhibit 68 E-mail chain dated 9/16/15	2 9:30 a m 3 09:30 AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30 AM 5 record at 9:30 a m on December 18th, 2015 09:30 AM
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al (Bates CSI-CLI-01483915 - 5 01483921) 201 6 Exhibit 68 E-mail chain dated 9/16/15 from Shane Corban to Yong 7 Hu, et al (Bates CSI-CLI-01440122 - 8 01440128) 204	2 9:30 a m 3 09:30 AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30 AM 5 record at 9:30 a m on December 18th, 2015 09:30 AM 6 This is the video-recorded deposition of 09:30 AM
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al	2 9:30 a m 3 09:30 AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30 AM 5 record at 9:30 a m on December 18th, 2015 09:30 AM 6 This is the video-recorded deposition of 09:30 AM 7 Abhay Roy 09:30 AM
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al (Bates CSI-CLI-01483915 - 5 01483921) 201 6 Exhibit 68 E-mail chain dated 9/16/15 from Shane Corban to Yong 7 Hu, et al (Bates CSI-CLI-01440122 - 8 01440128) 204	2 9:30 a m 3 09:30AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30AM 5 record at 9:30 a m on December 18th, 2015 09:30AM 6 This is the video-recorded deposition of 09:30AM 7 Abhay Roy 09:30AM 8 My name is Cassia Leet, here with our Court 09:30AM
NUMBER DESCRIPTION PAGE	2 9:30 a m 3 09:30AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30AM 5 record at 9:30 a m on December 18th, 2015 09:30AM 6 This is the video-recorded deposition of 09:30AM 7 Abhay Roy 09:30AM 8 My name is Cassia Leet, here with our Court 09:30AM 9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al (Bates CSI-CLI-01483915 - 5 01483921) 201 6 Exhibit 68 E-mail chain dated 9/16/15 from Shane Corban to Yong 7 Hu, et al (Bates CSI-CLI-01440122 - 8 01440128) 204 9 Exhibit 69 OSPFv3 support in IOS Software Unit Functional 10 Specification (Bates CSI-CLI-00609752 - 11 00609769) 219	2 9:30 a m 3 09:30AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30AM 5 record at 9:30 a m on December 18th, 2015 09:30AM 6 This is the video-recorded deposition of 09:30AM 7 Abltay Roy 09:30AM 8 My name is Cassia Leet, here with our Court 09:30AM 9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM 10 Legal Solutions at the request of counsel for the 09:30AM
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al	2 9:30 a m 3 09:30AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30AM 5 record at 9:30 a m on December 18th, 2015 09:30AM 6 This is the video-recorded deposition of 09:30AM 7 Abhay Roy 09:30AM 8 My name is Cassia Leet, here with our Court 09:30AM 9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM 10 Legal Solutions at the request of counsel for the 09:30AM 11 defendant 09:30AM
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al (Bates CSI-CLI-01483915 - 5 01483921) 201 6 Exhibit 68 E-mail chain dated 9/16/15 from Shane Corban to Yong 7 Hu, et al (Bates CSI-CLI-01440122 - 8 01440128) 204 9 Exhibit 69 OSPFv3 support in IOS Software Unit Functional 10 Specification (Bates CSI-CLI-00609752 - 11 00609769) 219 12 Exhibit 70 Support of BFD in OSPFv2 Functional Specification 13 (Bates CSI-CLI-00610401 -	2 9:30 a m 3 09:30AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30AM 5 record at 9:30 a m on December 18th, 2015 09:30AM 6 This is the video-recorded deposition of 09:30AM 7 Abltay Roy 09:30AM 8 My name is Cassia Leet, here with our Court 09:30AM 9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM 10 Legal Solutions at the request of counsel for the 09:30AM 11 defendant 09:30AM 12 This deposition is being held at 601 California 09:30AM
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al	2 9:30 a m 3 09:30AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30AM 5 record at 9:30 a m on December 18th, 2015 09:30AM 6 This is the video-recorded deposition of 09:30AM 7 Abltay Roy 09:30AM 8 My name is Cassia Leet, here with our Court 09:30AM 9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM 10 Legal Solutions at the request of counsel for the 09:30AM 11 defendant 09:30AM 12 This deposition is being held at 601 California 09:30AM 13 Avenue, Palo Alto, California 94304 09:30AM 14 The caption of this case is Cisco Systems, Inc , 09:31AM
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al (Bates CSI-CLI-01483915 - 5 01483921) 201 6 Exhibit 68 E-mail chain dated 9/16/15 from Shane Corban to Yong 7 Hu, et al (Bates CSI-CLI-01440122 - 8 01440128) 204 9 Exhibit 69 OSPFv3 support in IOS Software Unit Functional 10 Specification (Bates CSI-CLI-00609752 - 11 00609769) 219 12 Exhibit 70 Support of BFD in OSPFv2 Functional Specification 13 (Bates CSI-CLI-00610401 - 00610409) 219 14 Exhibit 71 CSCdk33792 219	2 9:30 a m 3 09:30AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30AM 5 record at 9:30 a m on December 18th, 2015 09:30AM 6 This is the video-recorded deposition of 09:30AM 7 Abltay Roy 09:30AM 8 My name is Cassia Leet, here with our Court 09:30AM 9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM 10 Legal Solutions at the request of counsel for the 09:30AM 11 defendant 09:30AM 12 This deposition is being held at 601 California 09:30AM 13 Avenue, Palo Alto, California 94304 09:30AM 14 The caption of this case is Cisco Systems, Inc., 09:31AM 15 versus Arista Networks, Inc., in the United States 09:31AM
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al	2 9:30 a m 3 09:30AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30AM 5 record at 9:30 a m on December 18th, 2015 09:30AM 6 This is the video-recorded deposition of 09:30AM 7 Abhay Roy 09:30AM 8 My name is Cassia Leet, here with our Court 09:30AM 9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM 10 Legal Solutions at the request of counsel for the 09:30AM 11 defendant 09:30AM 12 This deposition is being held at 601 California 09:30AM 13 Avenue, Palo Alto, California 94304 09:30AM 14 The caption of this case is Cisco Systems, Inc , 09:31AM 15 versus Arista Networks, Inc , in the United States 09:31AM 16 District Court, Northern District of California, 09:31AM
NUMBER DESCRIPTION PAGE	2 9:30 a m 3 09:30AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30AM 5 record at 9:30 a m on December 18th, 2015 09:30AM 6 This is the video-recorded deposition of 09:30AM 7 Abltay Roy 09:30AM 8 My name is Cassia Leet, here with our Court 09:30AM 9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM 10 Legal Solutions at the request of counsel for the 09:30AM 11 defendant 09:30AM 12 This deposition is being held at 601 California 09:30AM 13 Avenue, Palo Alto, California 94304 09:30AM 14 The caption of this case is Cisco Systems, Inc , 09:31AM 15 versus Arista Networks, Inc , in the United States 09:31AM 16 District Court, Northern District of California, 09:31AM 17 San Jose Division, Case No 5:14-cv-05344-BLF (PSG) 09:31AM
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al (Bates CSI-CLI-01483915 - 5 01483921) 201 6 Exhibit 68 E-mail chain dated 9/16/15 from Shane Corban to Yong 7 Hu, et al (Bates CSI-CLI-01440122 - 8 01440128) 204 9 Exhibit 69 OSPFv3 support in IOS Software Unit Functional 10 Specification (Bates CSI-CLI-00609752 - 11 00609769) 219 12 Exhibit 70 Support of BFD in OSPFv2 Functional Specification 13 (Bates CSI-CLI-00610401 - 00610409) 219 14 Exhibit 71 CSCdk33792 219 15 Exhibit 72 CSCdk33792 219 16 Exhibit 73 Support of BFD in OSPFv2	2 9:30 a m 3 09:30AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30AM 5 record at 9:30 a m on December 18th, 2015 09:30AM 6 This is the video-recorded deposition of 09:30AM 7 Abhay Roy 09:30AM 8 My name is Cassia Leet, here with our Court 09:30AM 9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM 10 Legal Solutions at the request of counsel for the 09:30AM 11 defendant 09:30AM 12 This deposition is being held at 601 California 09:30AM 13 Avenue, Palo Alto, California 94304 09:30AM 14 The caption of this case is Cisco Systems, Inc., 09:31AM 15 versus Arista Networks, Inc., in the United States 09:31AM 16 District Court, Northern District of California, 09:31AM 17 San Jose Division, Case No 5:14-cv-05344-BLF (PSG) 09:31AM 18 Please note that the audio and video recording 09:31AM
NUMBER DESCRIPTION PAGE	2 9:30 a m 3 09:30AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30AM 5 record at 9:30 a m on December 18th, 2015 09:30AM 6 This is the video-recorded deposition of 09:30AM 7 Abltay Roy 09:30AM 8 My name is Cassia Leet, here with our Court 09:30AM 9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM 10 Legal Solutions at the request of counsel for the 09:30AM 11 defendant 09:30AM 12 This deposition is being held at 601 California 09:30AM 13 Avenue, Palo Alto, California 94304 09:30AM 14 The caption of this case is Cisco Systems, Inc , 09:31AM 15 versus Arista Networks, Inc , in the United States 09:31AM 16 District Court, Northern District of California, 09:31AM 17 San Jose Division, Case No 5:14-cy-05344-BLF (PSG) 09:31AM 18 Please note that the audio and video recording 09:31AM 19 will take place unless all parties agree to go off the 09:31AM
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al	2 9:30 a m 3 09:30 AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30 AM 5 record at 9:30 a m on December 18th, 2015 09:30 AM 6 This is the video-recorded deposition of 09:30 AM 7 Abhay Roy 09:30 AM 8 My name is Cassia Leet, here with our Court 09:30 AM 9 Reporter, Rachel Ferrier We are here from Veritext 09:30 AM 10 Legal Solutions at the request of counsel for the 09:30 AM 11 defendant 09:30 AM 12 This deposition is being held at 601 California 09:30 AM 13 Avenue, Palo Alto, California 94304 09:30 AM 14 The caption of this case is Cisco Systems, Inc , 09:31 AM 15 versus Arista Networks, Inc , in the United States 09:31 AM 16 District Court, Northern District of California, 09:31 AM 17 San Jose Division, Case No 5:14-cv-05344-BLF (PSG) 09:31 AM 18 Please note that the audio and video recording 09:31 AM 19 will take place unless all parties agree to go off the 09:31 AM 20 record Microphones are sensitive and may pick up 09:31 AM
NUMBER DESCRIPTION PAGE	2 9:30 a m 3 09:30AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30AM 5 record at 9:30 a m on December 18th, 2015 09:30AM 6 This is the video-recorded deposition of 09:30AM 7 Abltay Roy 09:30AM 8 My name is Cassia Leet, here with our Court 09:30AM 9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM 10 Legal Solutions at the request of counsel for the 09:30AM 11 defendant 09:30AM 12 This deposition is being held at 601 California 09:30AM 13 Avenue, Palo Alto, California 94304 09:30AM 14 The caption of this case is Cisco Systems, Inc , 09:31AM 15 versus Arista Networks, Inc , in the United States 09:31AM 16 District Court, Northern District of California, 09:31AM 17 San Jose Division, Case No 5:14-cy-05344-BLF (PSG) 09:31AM 18 Please note that the audio and video recording 09:31AM 19 will take place unless all parties agree to go off the 09:31AM 20 record Microphones are sensitive and may pick up 09:31AM
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al (Bates CSI-CLI-01483915 - 5 01483921) 201 6 Exhibit 68 E-mail chain dated 9/16/15 from Shane Corban to Yong 7 Hu, et al (Bates CSI-CLI-01440122 - 8 01440128) 204 9 Exhibit 69 OSPFv3 support in IOS Software Unit Functional 10 Specification (Bates CSI-CLI-00609752 - 11 00609769) 219 12 Exhibit 70 Support of BFD in OSPFv2 Functional Specification 13 (Bates CSI-CLI-00610401 - 00610409) 219 14 Exhibit 71 CSCdk33792 219 15 Exhibit 72 CSCdk33792 219 16 Exhibit 73 Support of BFD in OSPFv2 17 Functional Specification (Bates CSI-CLI-00610410 - 18 00610420) 219 20 21	2 9:30 a m 3 09:30 AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30 AM 5 record at 9:30 a m on December 18th, 2015 09:30 AM 6 This is the video-recorded deposition of 09:30 AM 7 Abhay Roy 09:30 AM 8 My name is Cassia Leet, here with our Court 09:30 AM 9 Reporter, Rachel Ferrier We are here from Veritext 09:30 AM 10 Legal Solutions at the request of counsel for the 09:30 AM 11 defendant 09:30 AM 12 This deposition is being held at 601 California 09:30 AM 13 Avenue, Palo Alto, California 94304 09:30 AM 14 The caption of this case is Cisco Systems, Inc , 09:31 AM 15 versus Arista Networks, Inc , in the United States 09:31 AM 16 District Court, Northern District of California, 09:31 AM 17 San Jose Division, Case No 5:14-cv-05344-BLF (PSG) 09:31 AM 18 Please note that the audio and video recording 09:31 AM 19 will take place unless all parties agree to go off the 09:31 AM 20 record Microphones are sensitive and may pick up 09:31 AM
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al (Bates CSI-CLI-01483915 - 5 01483921) 201 6 Exhibit 68 E-mail chain dated 9/16/15 from Shane Corban to Yong 7 Hu, et al (Bates CSI-CLI-01440122 - 8 01440128) 204 9 Exhibit 69 OSPFv3 support in IOS Software Unit Functional 10 Specification (Bates CSI-CLI-00609752 - 11 00609769) 219 12 Exhibit 70 Support of BFD in OSPFv2 Functional Specification 13 (Bates CSI-CLI-00610401 - 00610409) 219 14 Exhibit 71 CSCdk33792 219 15 Exhibit 72 CSCdk33792 219 16 Exhibit 73 Support of BFD in OSPFv2 17 Functional Specification (Bates CSI-CLI-00610410 - 18 00610420) 219 19 20 21 22	2 9:30 a m 3 09:30AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30AM 5 record at 9:30 a m on December 18th, 2015 09:30AM 6 This is the video-recorded deposition of 09:30AM 7 Abltay Roy 09:30AM 8 My name is Cassia Leet, here with our Court 09:30AM 9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM 10 Legal Solutions at the request of counsel for the 09:30AM 11 defendant 09:30AM 12 This deposition is being held at 601 California 09:30AM 13 Avenue, Palo Alto, California 94304 09:30AM 14 The caption of this case is Cisco Systems, Inc , 09:31AM 15 versus Arista Networks, Inc , in the United States 09:31AM 16 District Court, Northern District of California, 09:31AM 17 San Jose Division, Case No 5:14-cy-05344-BLF (PSG) 09:31AM 18 Please note that the audio and video recording 09:31AM 19 will take place unless all parties agree to go off the 09:31AM 20 record Microphones are sensitive and may pick up 09:31AM
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13 from Vittal Krishnamurthy 4 to Pranav Mehta, et al (Bates CSI-CLI-01483915 - 5 01483921) 201 6 Exhibit 68 E-mail chain dated 9/16/15 from Shane Corban to Yong 7 Hu, et al (Bates CSI-CLI-01440122 - 8 01440128) 204 9 Exhibit 69 OSPFv3 support in IOS Software Unit Functional 10 Specification (Bates CSI-CLI-00609752 - 11 00609769) 219 12 Exhibit 70 Support of BFD in OSPFv2 Functional Specification 13 (Bates CSI-CLI-00610401 - 00610409) 219 14 Exhibit 71 CSCdk33792 219 15 Exhibit 72 CSCdk33792 219 16 Exhibit 73 Support of BFD in OSPFv2 17 Functional Specification (Bates CSI-CLI-00610410 - 18 00610420) 219 20 21	2 9:30 a m 3 09:30AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30AM 5 record at 9:30 a m on December 18th, 2015 09:30AM 6 This is the video-recorded deposition of 09:30AM 7 Abltay Roy 09:30AM 8 My name is Cassia Leet, here with our Court 09:30AM 9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM 10 Legal Solutions at the request of counsel for the 09:30AM 11 defendant 09:30AM 12 This deposition is being held at 601 California 09:30AM 13 Avenue, Palo Alto, California 94304 09:30AM 14 The caption of this case is Cisco Systems, Inc , 09:31AM 15 versus Arista Networks, Inc , in the United States 09:31AM 16 District Court, Northern District of California, 09:31AM 17 San Jose Division, Case No 5:14-cv-05344-BLF (PSG) 09:31AM 18 Please note that the audio and video recording 09:31AM 19 will take place unless all parties agree to go off the 09:31AM 20 record Microphones are sensitive and may pick up 09:31AM 21 whispers and private conversations 09:31AM
NUMBER DESCRIPTION PAGE	2 9:30 a m 3 09:30AM 4 THE VIDEOGRAPHER: Good morning We are on the 09:30AM 5 record at 9:30 a m on December 18th, 2015 09:30AM 6 This is the video-recorded deposition of 09:30AM 7 Abhay Roy 09:30AM 8 My name is Cassia Leet, here with our Court 09:30AM 9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM 10 Legal Solutions at the request of counsel for the 09:30AM 11 defendant 09:30AM 12 This deposition is being held at 601 California 09:30AM 13 Avenue, Palo Alto, California 94304 09:30AM 14 The caption of this case is Cisco Systems, Inc., 09:31AM 15 versus Arista Networks, Inc., in the United States 09:31AM 16 District Court, Northern District of California, 09:31AM 17 San Jose Division, Case No 5:14-cv-05344-BLF (PSG) 09:31AM 18 Please note that the audio and video recording 09:31AM 19 will take place unless all parties agree to go off the 09:31AM 20 record Microphones are sensitive and may pick up 09:31AM 21 whispers and private conversations 09:31AM 22 I ant not related to any party in this actiou, nor 09:31AM 23 ant I financially interested in the outcome in any way 09:31AM

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 103 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

1 Q And do you know the general dates? II:IIAM	1 be used by any pair of systems communicating via IPv4 11:14AM
2 A Yeah, I mean, I'll be completely widely 11:11 AM	2 and/or IPv6 across a single IP hop that is associated 11:14AM
3 speculating, so I would rather not 11:12AM	3 with an incoming interface." 11:14AM
4 Q Okay Do you have any knowledge of when Mr Ward 11:12AM	4 Do you see that language? 11:14AM
5 worked at Cisco? 11:12AM	5 A Yes, I see that. 11:14AM
6 A Same thing 11:12AM	6 Q Under the BFD standard, is BFD enabled for a 11:14AM
7 Q Okay At the time Exhibit 55 was published, 11:12AM	7 specific interface? 11:15AM
8 they both Mr Katz and Mr Ward worked at Juniper 11:12AM	8 MR. NEUKOM: Objection; vague, calls for opinion 11:15AM
9 Networks; is that right? 11:12AM	9 testimony. 11:15AM
10 A Yes That's what this that's what this 11:12AM	10 THE WITNESS: So I don't remember the complete 11:15AN
11 document is telling us 11:12AM	11 details of the document. My closest recollection is the 11:15AM
12 Q Okay 11:12AM	12 specified as the line you just quoted, it is a 11:15AM
13 A that is rendered, yes 11:12AM	13 technology where two devices on a single interface can 11:15AM
14 Q And Juniper Networks is a competitor of Cisco; 11:12AM	14 detect each other in a faster way. 11:15AM
15 correct? 11:12AM	15 BY MR. SILBERT: 11:15AM
16 A Yes Juniper makes routers and switches 11:12AM	16 Q Okay. Sorry to jump around on you, but I'm going 11:15AM
17 Q Okay If you look at the title of the document, 11:12AM	17 to do this I'm going to warn you, I'm going to do 11:15AM
18 it says "Bidirectional Forwarding Detection (BFD) " 11:12AM	18 this some today. 11:15AM
19 Do you see that? 11:13AM	19 Could you look back at Exhibit 54 or, 11:15AM
20 A Yes, I see that 11:13AM	20 actually, strike that. That's okay. 11:16AM
21 Q Is the acronym BFD one that's commonly used in 11:13AM	21 What what is the function of the 11:16AM
22 the industry? 11:13AM	22 "bfd all-interfaces" command in Cisco IOS? 11:16AM
23 MR NEUKOM: Objection; foundation, calls for 11:13AM	23 A So BFD I mean, this is a slightly longer 11:16AM
24 opinion testimony 11:13AM	24 answer, so BFD we just looked at the spec. This is 11:16AM
25 THE WITNESS: So if you stay in the scope of this 11:13AM	25 the technology where, on a per-interface basis between 11:16AM
Page 66	Page 68
1 document, the primary purpose, as I was answering 11:13AM	I two devices, you can set up this functionality to detect 11:16AM
2 earlier, is for the reader to understand this document 11:13AM	2 whoever goes down faster, right? 11:16AM
3 and refer to to BFD as as a acronym versus saying 11:13AM	3 When we ship this technology to our customers, 11:16AM
4 or fully spelling out Bidirectional Forwarding 11:13AM	4 what we realized is they have a lot of such interfaces, 11:16AM
5 Detection. That's the purpose in this document. 11:13AM	5 and if you had, let's say, a hundred interfaces, it was 11:16AM
6 Now, as far as the industry is concerned, I have 11:13AM	6 quite cumbersome to go and configure, on each interface, 11:16AM
7 no idea what people want to call it, but the correct 11:13AM	7 that I really want to protect myself; I really want BFD 11:16AM
8 thing to call it would be the full name, which is the 11:13AM	8 enabled 11:17AM
9 technology, which is Bidirectional Forwarding Detection. 11:13AM	9 So what we came up with is: What if we gave you 11:17AM
10 People could abbreviate and say all sorts of things, 11:13AM	10 a shorthand which you can configure at a higher 11:17AM
11 detection using bidirectional checks or doing all sorts 11:13AM	11 construct? I1:17AM
12 of things, so variety of options possible. 11:14AM	12 So the example I was giving earlier is, in 11:17AM
13 MR. SILBERT: Okay. But fair enough. 11:14AM	13 OSPF OSPF Version 3, in the router context not in 11:17AM
14 Q But you agree that the acronym BFD, to refer to 11:14AM	14 the interface context, in the router context you can 11:17AM
15 Bidirectional Forwarding Detection, appears in 11:14AM	15 go and say, BFD, please configure for all interfaces 11:17AM
16 Exhibit 55? 11:14AM	16 And that simplifies the operational aspect, and 11:17AM
17 A Yes, that is correct. I see that. 11:14AM	17 customers can now just do this versus having to go to 11:17AM
18 Q Yeah. Okay. 11:14AM	18 each interface and enabling one at a time, so that's the 11:17AM
Would you please turn to the second page of the 11:14AM	19 primary intent based on the feedback we got 11:17AM
20 document under Section 2, and I'm looking at the 11:14AM	20 Q Okay And so just to make sure that I I1:17AM
21 section Section 2 with the heading "Applications and 11:14AM	21 understand, the "bfd all-interfaces" command enables BFD 11:17AM
22 Limitations." 11:14AM	22 for all interfaces; is that correct? 11:17AM
23 Do you see that? 11:14AM	23 MR NEUKOM: Objection; misstates prior 11:17AM
24 A Yes, I see that. 11:14AM	24 testimony 11:17AM
25 Q Under that, it says, "This application of BFD can 11:14AM	25 THE WITNESS: I would add little bit to that III 11:17AM
Page 67	Page 69

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 104 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

1 the context of a certain routing protocol 11:17AM	1 where the "probably" comes from 11:20AM
2 MR. SILBERT: Okay. 11:17AM	2 Q Okay But you don't have any actual image in 11:20AM
3 THE WITNESS: it enables BFD for all 11:18AM	3 your head of those discussions; is that right? 11:20AM
4 interfaces where that routing protocol is enabled, but, 11:18AM	4 A That's correct 11:20AM
5 yeah. 11:18AM	5 Q Okay Why don't you go back to let's let's 11:20AM
6 BY MR. SILBERT: 11:18AM	6 look again at Exhibit 54, this table, and would you 11:20 AM
7 Q Okay. We discussed earlier the fact that you 11:18AM	7 please turn to page 12 11:20AM
8 don't know who came up with the expression 11:18AM	8 Do you see, a little more than midway down the 11:21AM
9 "bfd all-interfaces"; is that correct? 11:18AM	9 page, the Command Expression in the left-hand column 11:21AM
10 MR. NEUKOM: Objection; misstates prior 11:18AM	10 "ip ospf authentication"? 11:21AM
I1 testimony. 11:18AM	11 A Yeah, I see that 11:21AM
12 THE WITNESS: Yeah, so as I said earlier, this 11:18AM	12 Q Okay And do you see the next column with the 11:21AM
13 was a set of engineers who were working on this across 11:18AN	
14 multiple protocols, and it's collaborative. I can't 11:18AM	14 "Cisco" and then your name? 11:21AM
15 pinpoint to specific engineer who probably suggested 11:18AM	15 A Yes, I see that 11:21AM
16 these exact words. 11:18AM	16 Q Did you come up with the expression "ip ospf 11:21AM
17 BY MR. SILBERT: 11:18AM	17 authentication"? 11:21AM
18 Q Okay. And I take it that you also don't know 11:18AM	18 A I'll probably give you a similar answer; that I 11:21AM
19 what sources that engineer or those engineers referred 11:18AM	19 was part of the team who were working on it Was this 11:21AM
20 to in coming up with that expression; is that correct? 11:19AM	20 purely me or was it a combined brainstorming with the 11:21AM
21 MR. NEUKOM: Objection; misstates prior 11:19AM	21 team, 1 don't have specific recollection 11:21AM
22 testimony. 11:19AM	22 Q Okay And similar to the "bfd all-interfaces" 11:22AM
23 THE WITNESS: Yeah, so, I mean, I can't recollect 11:19AM	23 command that we discussed, do you have any knowledge of 11:22AM
24 what what sources they used to come up with this 11:19AM	
25 exactly. 11:19AM	24 what person or persons actually came up with the 11:22AM 25 expression "ip ospf authentication"? 11:22AM
Page 70	Page 72
1 BY MR SILBERT; 11:19AM	MR, NEUKOM: Objection; asked and answered. 11:22AM
2 Q What was your personal involvement, if any, in 11:19AM	THE WITNESS: Yeah, no specific names I can cite, 11:22AM
3 naming the "bfd all-interfaces" command? 11:19AM	3 but, again, this is similar to what I said. The team 11:22AM
4 A So I remember the implementation part of the 11:19AM	4 talks about it and comes up with the name. Who who 11:22AM
5 command where I was a developer writing the code and 11:19AM	5 seeded the word or part of the word and how we arrived 11:22AM
6 implementing the command 11:19AM	6 at the final word, no specific recollection. 11:22AM
,	7 BY MR. SILBERT: 11:22AM
	8 Q Okay. And, again, 1 I'm assuming this is 11:22AM
8 recollect was it my idea or was it a collaborative idea 11:19AM	9 true, but correct me if I'm wrong. 11:22AM
9 which finally came to these exact choice of words, yeal, 11:19AM	l '
10 so I don't recall Probably participated in the 11:19AM	10 You you have no image in your head of any 11:22AM 11 discussions surrounding this particular term with 11:22AM
11 discussion of coming to this exact command syntax 11:19AM	
12 Q Okay Where you say "probably participated in 11:19AM	
13 the discussion," do you have any recollection of 11:20AM	
14 participating in a discussion that came to this exact 11:20AM	
15 command syntax? 11:20AM	15 "ip ospf authentication"? I1:23AM
16 A Yeah, so no specific recollection I1:20AM	16 A This command is at a at a interface level, if 11:23AM
17 Q Do you have a general recollection of 11:20AM	17 I remember, and what this does is if if two devices 11:23AM
18 participating in that discussion? 11:20AM	18 are talking OSPF, you can configure both devices to 11:23AM
19 A The general recollection is, again, based on some 11:20AM	19 to do some level of encoding in the packets so that they 11:23AM
20 of the earlier comments I made The the way we 11:20AM	20 can validate each other. There are different types of 11:23AM
21 actually design a new command is the team talks about 11:20AM	21 authentication. There is if I remember, again, 11:23AM
22 it The team brainstorms about it, and I was part of 11:20AM	22 correctly, there is a clear text authentication. There 11:23AM
23 the team working at that time, so it will be hard to 11:20AM	23 is a message digest digest authentication, and I 11:23AM
24 believe that I was hiding under the table not really 11:20AM	24 think those are the those are the additional keywords 11:23AM
25 doing anything, so I was probably participating That's 11:20AM	24 think those are the those are the additional keywords 11:23AM 25 associated with this command. 11:24AM
·	24 think those are the those are the additional keywords 11:23AM

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 105 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

1 Q Okay. What's the significance of the term "ip" 11:24AM	1 this document, Exhibit 29? 11:27AM
2 at the start of this command? 11:24AM	2 MR. NEUKOM: Objection; foundation. 11:27AM
3 A IP I think we we kept "ip" as the top-level 11:24AM	3 THE WITNESS: So I'm just reading page 1 or 11:27AM
4 keyword for things which were related to IP before, so 11:24AM	4 what you have in your bottom as 1557. Just below the 11:27AM
5 "ip" really implies IP Version 4. 11:24AM	5 RFC 791, it says, Replaces RFC 760, which generally 11:27AM
6 Q Okay. And just to back up for a second, IP 11:24AM	6 implies there was prior work, which which his 11:27AM
7 stands for Internet protocol; correct? 11:24AM	7 supersedes. 11:27AM
8 A That is correct. 11:24AM	8 BY MR. SILBERT: 11:28AM
9 Q And IPv4 stands for or refers to Version 4 of 11:24AM	9 Q Okay. And forgive me if I've asked you this 11:28AM
10 the Internet protocol; is that correct? 11:24AM	10 (Discussion off the stenographic record.) 11:28AM
11 A That is correct. That is correct. 11:24AM	11 BY MR. SILBERT: 11:28AM
12 Q And the Internet protocol is specified in a 11:24AM	12 Q I apologize if I've asked you this already, but 11:28AM
13 standard published by the IETF; correct? 11:24AM	13 have have you heard the Internet protocol abbreviated 11:28AM
14 A That it's correct. 11:24AM	14 IP outside the context of Cisco? 11:29AM
15 Q And IPv4 is specified in a standard published by 11:24AM	15 A As in what are the other possible abbreviations? 11:29AM
16 the IP IETF; correct? 11:25AM	16 For example, intellectual property we use "IP" term all 11:29AM
17 A Yes, that's correct. 11:25AM	17 the time. 11:29AM
18 Q Okay. The acronym IP was used by the industry to 11:25AM	18 Q We do that too. No. 11:29AM
19 refer to Internet protocol before Cisco used it in CLI 11:25AM	19 My question is: Have you heard the abbreviation 11:29AM
20 commands; correct? 11:25AM	20 IP used to refer to the Internet protocol outside the 11:29AM
21 MR. NEUKOM: Objection; foundation. 11:25AM	21 context of Cisco? 11:29AM
22 THE WITNESS: So the term "IP," just like we 11:25AM	22 MR. NEUKOM: Objection; vague. 11:29AM
23 discussed for BFD right? when you write Internet 11:25AM	23 THE WITNESS: So in in IETF as part of my 11:29AM
24 standard, you try to abbreviate technologies, and, 11:25AM	24 role in IETF, people do loosely refer Internet Protocol 11:29AM
25 again, we can look at that document and confirm that's 11:25AM	25 Version 6 as "IP," as as one one of the variants. 11:29AM
Page 74	Page 76
1 true or not I'm guessing it says Internet protocol and 11:25AM	1 There are, again, multiple ways to say that 11:29AM
2 that abbreviates it as "IP," and the document refers to 11:25AM	2 BY MR SILBERT: 11:29AM
3 that so that you don't have to keep saying "Internet 11:25AM	3 Q Have you heard the expression "TCP/IP"? 11:29AM
4 protocol" or "Internet Protocol Version 4 " 11:25AM	4 A Yes, I have 11:29AM
5 MR NEUKOM: By the way, David, while you are 11:26AM	5 Q Do you know what the IP stands for in that 11:29AM
6 getting a new document, just as a housekeeping matter, 11:26AM	6 expression? 11:29AM
7 30 minutes or so ago I objected to a question you asked 11:26AM	7 A That is the Internet protocol 11:30AM
8 the witness on the basis of attorney-client privilege, 11:26AM	8 Q Okay And that's the same Internet protocol that 11:30AM
9 and I meant to have objected on the basis of attorney 11:26AM	9 we have been discussing here this morning; correct? 11:30AM
10 work product 11:26AM	10 A Correct 11:30AM
11 MR SILBERT: Okay 11:26AM	11 Except in when you say "TCP/IP," it's probably 11:30AM
12 MR NEUKOM: So 11:26AM	12 a little broader because it does not imply which IP 11:30AM
13 BY MR SILBERT: 11:26AM	13 version you might be using For example, you may be 11:30AM
14 Q This is let me show you a document that's 11:26AM	14 using IP with IP Version 6, or you may be using 11:30AM
15 already been marked as Exhibit 29 in this case 11:26AM	15 1P Version 4 It's a slightly broader term 11:30AM
16 Do you recognize this document? 11:26AM	16 Q Okay I think you mentioned this previously, but 11:30AM
17 A Yes, I do 11:27AM	17 before somebody came up with the expression "ip ospf 11:30AM
18 Q What is it? 11:27AM	18 authentication," Cisco used "IP" as a top-level keyword 11:30AM
19 A This is an RFC which details the Internet 11:27AM	19 in other commands; correct? 11:30AM
20 protocol 11:27AM	20 A That is correct 11:30AM
21 Q And the publication date shown here is 11:27AM	21 Q And so when someone came up with the expression 11:31AM
22 September 1981; correct? 11:27AM	22 "ip ospf authentication," they followed that same 11:31AM
23 A Yes, that is correct 11:27AM	23 syntax; correct? 11:31AM
24 Q And was this, to your knowledge, the first 11:27AM	24 MR NEUKOM: Objection; vague 11:31AM
25 version of the Internet protocol that's described in 11:27AM	25 THE WITNESS: Authentication keyword, when it was 11:31AM
Page 75	Page 77

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 106 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

1 A the previous okay 11:32AM 2 yeach 11:32AM 2 specifies OSPF protocol, protocol specification. 11:36AM 2 specifies OSPF protocol, protocol specification. 11:36AM 3 A "Ip ospf authentication" referred to enabling the 11:32AM 4 authentification features as we said, it could be 11:33AM 4 October 1989; correct? 11:36AM 5 clear text or it could be message digest on that 11:33AM 5 A That is correct? 11:36AM 6 interface 11:33AM 6 interface 11:33AM 7 Q Yeah, I apologize because my question 11:33AM 8 A Okay 11:33AM 8 A Okay 11:33AM 8 A Yes. John Moy was the author. 11:36AM 8 A Yes. John Moy was the author. 11:36AM 9 Q wasn't clear 11:33AM 9 Q And the company where he's listed as working is 11:36AM 11 you know what documents or source materials the people 11:33AM 12 who came up with the expression "ip ospf authentication" 11:33AM 12 document, he was employed by Proteon, Inc. 11:37AM 13 referred to when naming that command? 11:33AM 14 A So I can't tell you anything very specific, but 11:33AM 15 what typically happens, I can say, is when you write a 11:33AM 16 new command, of course, you will see source code 11:33AM 16 Not that I know of. 11:37AM 17 changes, which tooks like it refers to You may also 11:33AM 18 produce customer-facing documents For example, we saw 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 conunand reference where also this will get document			711 TOTALETO ETES ONET
3 there were commands with IP OSPF some other options. It II:31 AM 4 mide sense to attach authentication to that chain. II:31 AM 5 already rather has out of create something bund neve. II:131 AM 6 BY MR. SILBERT: II:31 AM 7 Q Olay. And, in fact, if you look induced below "in leading blood neve. II:31 AM 9 ospf nuthentication." do you see the entry for "ip ospf. II:31 AM 10 authentication." do you see the entry for "ip ospf. II:31 AM 12 A Yes, I see that II:32 AM 13 expression "go you see the entry for "ip ospf. II:34 AM 14 expression "go you see the entry for "ip ospf. II:34 AM 15 during the care of the state of the see that II:32 AM 16 expression "go you show what the person or persons who came II:32 AM 18 Q Do you know what the person or persons who came II:32 AM 18 Q Do you know what the person or persons who came II:32 AM 18 Q Do you know what the person or persons who came II:32 AM 19 up with the expression "go opf authentication" referred II:32 AM 20 to whom coming up with that expression? II:32 AM 21 A A rey on acking for the person or persons who came II:32 AM 22 the "ip ospf authentication" - II:32 AM 23 Q Yes II:32 AM 24 A - or the "ksy" command - II:32 AM 25 Q No II:32 AM 26 A - or the "ksy" command - II:33 AM 3 A 'D sopf authentication" referred II:33 AM 3 A 'D sopf authentication" referred II:33 AM 4 A Colay II:33 AM 4 A Olay II:33 AM 5 clear text or it could be nisstage digest - on that II:33 AM 6 interface II:33 AM 11 you know what documents or source materials the people II:33 AM 12 who came up with the expression "go spf authentication" referred II:33 AM 13 A 'D spf authentication referred II:33 AM 14 A So I card telly on anything very specific, but II:33 AM 15 done text or it could be nisstage digest - on that II:33 AM 16 interface II:33 AM 17 do accommand of course, ow will see the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the cour		1 introduced again, I'm trying to recollect from my 11:31AM	1 A Yes 11:34AM
4 made sense to attach nutheatication to that chain 5 already rather than sort of create semeding brand new 11:31AM 5 already rather than sort of create semeding brand new 11:31AM 7 Q Olary And, in fact, if you look below tooking 11:31AM 8 stiff at Exhibit 54, if you look below tooking 11:31AM 10 authentication-key"? 11:32AM 11 A Yes, I see that 11 A Yes, I see that 12 Q And the -fryou look there, the dute of the 11:32AM 12 Q And the -fryou look there, the dute of the 11:32AM 13 carlicat-known document that's listed for that 11:32AM 14 expression is 1993, which is five yearn or so certifier 11:32AM 15 than the deatt fact of "ip optf authentication" is 11:32AM 16 that correct? 11:32AM 17 A Thaff what this document says, yes 11:32AM 19 up with the expression "ip optf authentication" referred 11:32AM 19 up with the expression "ip optf authentication" referred 11:32AM 10 to when conting up with that expression "11:32AM 11 A roy ou sknow what the person or persons who came 11:32AM 12 Q O yes know what the person or persons who came 11:32AM 14 A no or the "key" command	:	2 20-year-old memory IP OSPF existed in the sense that 11:31AM	2 MR NEUKOM: Objection; misstates prior 11:34AM
5 already raffer than sort of create something brand new IE31AM 6 BY MR SILBERT: IE34AM 8 and in fact, if you look belowlooking 11:31AM 8 at fill at Exhibit 54, if you look immediately below "ip IE31AM 8 at fill at Exhibit 54, if you look immediately below "ip IE31AM 8 at fill at Exhibit 54, if you look immediately below "ip IE31AM 8 and An in fact, if you look immediately below "ip IE31AM 8 at fill at Exhibit 54, if you look immediately below "ip IE31AM 8 and An in fact, if you look immediately below "ip IE31AM 8 and An in fact, if you look immediately below "ip IE31AM 8 and IE31	1 3	3 there were commands with IP OSPF some other options It 11:31AM	3 testimony 11:34AM
6 BY MR SILBERT: 11:34AM 7 Q Olay And, in fact, if you look below—looking H31AM 8 grild at Exhibit 54, if you look immediately below "ip H31AM 9 orgh authentication," do you see the entry for "ip ough H31AM 10 authentication-key" 11:32AM 11 A Ye, I see that 11:32AM 12 Q And the—if you look there, the data of the H32AM 13 artisets-known document that's listed for that 11:32AM 14 expression is 1903, which is five years or so certifier H32AM 15 antifiest-known document that's listed for that 11:32AM 16 that correct? H32AM 17 A That's what this document says, yes H23AM 18 Q Do you know what the person or persons who came H32AM 19 up with the expression "ip ough authentication" referred 11:32AM 19 up with the expression "pough authentication" referred 11:32AM 21 A Are you asking for the previous command, which is 11:32AM 22 the "ip ough authentication" — 11:32AM 23 Q Yes H133AM 24 A — or the "key" command — 11:32AM 25 Q No H133AM 3 A "Ip ough authentication" referred to enabling the H132AM 4 midnestification features — as we said, it could be H133AM 5 clear test or it could be negaged giest — on that H133AM 6 interface — 11:33AM 19 who came up with the expression "pough authentication" referred to enabling the H133AM 10 What I actually was trying to ask you was: Do H33AM 11 you know what the person or commond, with a the proof of the province of the counting that command? 11:33AM 12 who came up with the expression in pough authentication or 11:33AM 13 referred to when manting that command? 11:33AM 14 A So Lean't call you anything very specific, but 11:33AM 15 who to remain the pough authentication or 11:33AM 16 referred to when manting that command? 11:33AM 17 changes, which looks like it refers to Von may also 11:33AM 18 of looke customer-ficing documents? For example, we saw 11:33AM 19 robocce customer-ficing documents? For example, we saw 11:33AM 10 robusting documents for the pough authentication or 11:33AM 11 robusting pough authentication or 11:33AM 12 who came up with the expression in pough authentication or		4 made sense to attach authentication to that chain 11:31AM	4 THE WITNESS: Yes I don't have, again, specific 11:34AM
7 Q Okay And, in fact. if you look below — looking 11:31AM 8 at list lebiht 54, if you look immediately below "Ip 11:31AM 8 Q Okay We have talked a list bit about ORFF 11:34AM 10 authentication," do you see the entry for "ip one" 11:31AM 11 A Yes, I see that	1	5 already rather than sort of create something brand new 11:31AM	5 recollection of what sort of documentation or documents 11:34AM
7 Q Okay And, fir fact, if you look below — looking 11-31 AM		·	6 we wrote at that time 11:34AM
8 still at Exhibit 54, if you look immediately below "ip 11:31AM 9 opt authentication," do you use the entry for "ip ospf 11:31AM 11:32AM 11:32AM 11:32AM 12: Q And the -if you look there, the date of the 11:32AM 12: Q And the -if you look there, the date of the 11:32AM 13: aerliest-known document that's listed for that 11:32AM 14: Cexpression is 1993, which is five years or so entire 11:32AM 15: than the date listed for "ip ospf authentication"; is 11:32AM 15: than the date listed for "ip ospf authentication"; is 11:32AM 16: than the date listed for "ip ospf authentication"; is 11:32AM 16: the cornect? 11:32AM 16: the cornect? 11:32AM 16: the cornect of the routing protocols OSFF 11:34AM 17: A That's what this document says, yes 11:32AM 16: one deprecate the older one and so on, as there are 11:35AM 17: multiple standards out the related to OSPF 11:35AM 18: Q Do you know what the person or persons who came 11:32AM 18: Q Do you know what the person or persons who came 11:32AM 18: Q Do you know what the person or persons who came 11:32AM 18: Q Do you know what the person or persons who came 11:32AM 18: Q Do you know what the person or persons who came 11:32AM 18: Q Do you know what the person or persons who came 11:32AM 18: Q Do you know what the person or persons who came 11:32AM 18: Q Do you know what the person or persons who came 11:32AM 18: Q Do you know what the person or persons who came 11:32AM 18: Q Do you know what the person or persons who came 11:32AM 18: Q Do you know what the person or persons who came 11:32AM 18: Q Do you know what the person or persons who came 11:32AM 18: Q Do you know what the person or persons who came 11:32AM 18: Q Do you know what the person or persons who came 11:32AM 18: Q Do you know what the person or persons who came 11:32AM 18: Q Do you know what the person or persons who came 11:32AM 18: Q Do you know what the person or persons who came 11:32AM 18: Q Do you know what the berson or person who came 11:32AM 18: Q Do you know what the berson or person who came 11:32AM 18:	7		
9 orpfauthentication," do you see the entry for "ip ospf 11:31AM 10 authentication," do you see the entry for "ip ospf 11:31AM 11 A Yes, I see data 11:32AM 11 A Yes, I see data 11:32AM 12 Q And the -if you look there, the date of the 11:32AM 13 earliest-known document that's listed for that 11:32AM 14 expression is 1993, which is five years or so cartier 11:32AM 15 than the date listed for "ip ospf authentication" (is 11:32AM 16 that correct? 11:32AM 16 that correct? 11:32AM 16 that correct? 11:32AM 16 one deprecate the older one and so on, so there are 11:33AM 17 A That's what this document says, yes 11:32AM 19 up with the expression "ip ospf authentication" referred 11:32AM 19 up with the expression or persons who came 11:32AM 19 up with the expression "ip ospf authentication" referred 11:32AM 19 up with the expression "ip ospf authentication" referred 11:32AM 19 up with the expression or persons who came 11:32AM 19 up with the expression or persons who came 11:32AM 19 up with the expression or persons who came 11:32AM 19 up with the expression or persons who came 11:32AM 19 up with the expression or persons who came 11:32AM 19 up with the expression or persons who came 11:32AM 19 up with the expression or persons who came 11:32AM 19 up with the expression or persons who came 11:32AM 19 up with the expression or persons who came 11:32AM 19 up with the expression or persons who came 11:32AM 19 up with the expression or persons who came 11:33AM 19 up with the expression or persons who came 11:33AM 19 up with the expression or persons who came 11:33AM 19 up with the expression or persons who came 11:33AM 19 up with the expression or persons who came 11:33AM 19 up with the expression or persons who came 11:33AM 19 up with the expression or persons who came 11:33AM 19 up with the expression or persons who came 11:33AM 19 up with the expression or persons who came 11:33AM 19 up with the expression or persons who came 11:33AM 19 up with the expression or persons who came 11:33AM 19 up with the value or persons or pe			
10 BTF; correct?			1
11 A Yes, I see that 12 Q And theif you look there, the date of the 11-32AM 13 earliest-known document than's listed for that 11-32AM 14 expression is 1993, which is five years or so earlier 11-32AM 15 than the date listed for "ip ospf nuthentication", is 11-32AM 15 than the date listed for "ip ospf nuthentication", is 11-32AM 16 that correct? 11-32AM 17 A Than's what this document say, yes 11-32AM 18 Q Do yon know what the person or persons who came 11-32AM 19 up with the expression "ip ospf authentication" referred 11-32AM 20 to when coming up with that expression "ip ospf authentication" referred 11-32AM 21 A Are you asking for the previous command, which is 11-32AM 22 the "ip ospf authentication" - 11-32AM 23 Q Yes 11-32AM 24 A - or the "key" command - 11-32AM 25 Q No 11-32AM 26 Q Yeah 11-32AM 27 Q Yeah 11-32AM 28 Q Peah 11-32AM 29 Q What is it? 20 Q Yeah 11-32AM 30 A "lip ospfauthentication" referred to enabling the 11-33AM 4 A Othey 11-33AM 5 clear text or it could be message digest on that 11-33AM 10 What I actually was trying to ask you wis: Do 11-33AM 11-30AM 12-30AM 13-30AM 14-40A 15 than had multiple lETF standards published over time, and 11-34AM 15 as we just saw, in the case of IP, sometimes the newer 11-35AM 11-35AM 11-35AM 11-35AM 11-35AM 19 (Exhibit 56 was marked for 11-35AM 19 (Exhibit 56 was marked for 11-35AM 19 (Exhibit 56 was marked for 11-35AM 11-36AM 22 Q Mr Roy, would you please look at Exhibit 56 and 11-36AM 24 A - or the "key" command 11-36AM 25 Q No 11-32AM 26 Q Yeah 11-35AM 27 A This is another of OSPF standards RFC, which 11-36AM 28 Q Do you know Mr. Moy? 11-36AM 29 Q And the author listed here is someone named 11-36AM			
12		•	
13 earliest-known document than's listed for that 11:32AM 14 texpression is 1993, which is five years or so earlier 11:32AM 15 than the date listed for "ip ospf authentication", is 11:32AM 16 than the date listed for "ip ospf authentication", is 11:32AM 16 than the date listed for "ip ospf authentication", is 11:32AM 16 than the date listed for "ip ospf authentication" is 11:32AM 16 than the date listed for "ip ospf authentication" is 11:32AM 17 multiple standards out there related to OSPF 11:35AM 11:35AM 17 multiple standards out there related to OSPF 11:35AM 11:35AM 18 Q Do you know what the expression "p ospf authentication" referred 11:32AM 18 MR SILBERT: Okay 11:35AM 11:35AM 11:35AM 11:32AM 12 M			
14 expression is 1993, which is five years or so earlier 11:32AM 15 than the date listed for "ip ospf authentication"; is 11:32AM 15 than the date listed for "ip ospf authentication"; is 11:32AM 16 one depresent the older one and so on, so there are 11:35AM 16 one depresent the older one and so on, so there are 11:35AM 16 one depresent the older one and so on, so there are 11:35AM 17 multiple standards out there related to OSP 11:35AM 18 Q Do you know what the person or persons who came 11:32AM 19 up with the expression "ip ospf authentication" referred 11:32AM 19 (Exhibit 56 was marked for 11:35AM 11:36AM 11:36AM 11:36AM 11:36AM 11:36AM 11:36AM 11:36AM 11:36AM 11:36AM 11:3			
15 than the date listed for "ip ospf authentication"; is 11:32AM 16 that correct? 11:35AM 16 that correct? 11:35AM 17 A Than's what this document says, yes 11:32AM 18 Q D by one know what the person or persons who came 11:32AM 19 up with the expression "ip ospf authentication" referred 11:32AM 19 up with the expression "ip ospf authentication" referred 11:32AM 20 to when coming up with that expression? 11:32AM 21 A A rey on asking for the previous command, which is 11:32AM 22 the "ip ospf authentication" - 11:32AM 23 Q Yes 11:32AM 24 A or the "key" command - 11:32AM 25 Q No 11:32AM 26 Q Yeah 11:32AM 27 Q Yeah 11:32AM 28 Q Yeah 11:32AM 30 A "ip ospf authentication" referred to enabling the 11:33AM 31 A "ip ospf authentication" referred to enabling the 11:33AM 32 Q Yeah 11:33AM 33 A "ip ospf authentication" referred to enabling the 11:33AM 34 A go yeah 11:33AM 35 C elear text or it could be inessage digest on that 11:33AM 46 interface 11:33AM 47 Q Yeah, 1 apologize because my question 11:33AM 48 A Okay 11:33AM 49 Q wasn't clear 11:33AM 40 What I actually was trying to ask you was: Do 11:33AM 41 A So I can't clel you anything very specific, but 11:33AM 41 A So I can't clel you anything very specific, but 11:33AM 41 A So I can't clel you anything very specific, but 11:33AM 41 A So I can't clel you anything very specific, but 11:33AM 41 A So I can't clel you anything very specific, but 11:33AM 42 Who came up with the expression "ip ospf authentication" 11:33AM 43 New that typically happens, I can say, is when you write a 11:33AM 44 A Correct, so at the time of publication of this 11:37AM 45 What typically happens, I can say, is when you write a 11:33AM 46 Correct, so at the time of publication of this 11:37AM 47 Changes, which looks like it refers to You may also 11:33AM 48 A Octain and the expression "ip ospf authentication" 11:33AM 49 Conument reference where also this will get documented as 11:33AM 40 Conument reference where also this will get documented as 11:33AM 40 Conument reference where also th	l		
16 that correer? 11:32AM 16 one deprecate the older one and so on, so there are 11:35AM 17 multiple standards out there related to OSPF 11:35AM 18 Q Do you know what the person or persons who came 11:32AM 19 up with the expression "ip ospf authentication" referred 11:32AM 19 (Exhibit 56 was marked for 11:35AM 11:35AM 19 (Exhibit 56 was marked for 11:35AM 11:35AM 11:35AM 19 (Exhibit 56 was marked for 11:35AM 11:35AM 11:35AM 19 (Exhibit 56 was marked for 11:35AM 11:35AM 11:35AM 11:35AM 11:35AM 11:35AM 11:35AM 10 what is in the expression of a part of the exhibit of the ex	1		
17 A That's what this document says, yes 11:32AM 18 Q Do you know what the person or persons who came 11:32AM 19 up with the expression "ip ospf authentication" referred 11:32AM 20 to when coming up with that expression? 11:32AM 21 BY MR SILBERT: Okay 11:35AM 21 A Are you asking for the previous command, which is 11:32AM 22 the "ip ospf authentication" 11:32AM 22 Q Mr Roy, would you please look at Exhibit 56 and 11:36AM 23 Q Yes 11:32AM 22 the "ip ospf authentication" 11:32AM 24 A or the "key" command 11:32AM 25 Q No 11:32AM 26 Q Yeah 11:32AM 27 Q Yeah 11:32AM 27 Q Yeah 11:32AM 28 Page 7			-
18 Q Do you know what the person or persons who came 11:32AM 19 up with the expression "ip ospf authentication" referred 11:32AM 20 to when coming up with that expression? 11:32AM 21 A Are you asking for the previous command, which is 11:32AM 22 the "ip ospf authentication" — 11:32AM 21 the "ip ospf authentication" — 11:32AM 22 the "ip ospf authentication" — 11:32AM 23 Q Yes 11:32AM 24 A or the "key" command — 11:32AM 25 Q No 11:32AM 26 What is it? 11:36AM 27 Q Yesh 11:32AM 27 Q Yesh 11:32AM 27 Q Yesh 11:32AM 28 Selectives of it ould be 11:33AM 29 Q wasn't clear 11:33AM 29 Q wasn't clear 11:33AM 20 What I actually was trying to ask you was: Do 11:33AM 20 What I actually was trying to ask you was: Do 11:33AM 21 who came up with the expression "ip ospf authentication" 11:33AM 20 What I actually was trying to ask you was: Do 11:33AM 20 who came up with the expression "ip ospf authentication" 11:33AM 20 what it does and what the syntax is and so on 11:33AM 20 what it does and what the syntax is and so on 11:33AM 20 what it does and what the syntax is and so on 11:33AM 20 what it does and what the syntax is and so on 11:33AM 20 what it does and what the syntax is and so on 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Who can up with that acronym, to your 1	ĺ		
19 up with the expression "ip ospf authentication" referred 11:32AM 20 to when coming up with that expression? 11:32AM 21 A Are you asking for the previous command, which is 11:32AM 22 the "ip ospf authentication" - 11:32AM 23 Q Yes 11:32AM 24 A or the "key" command 11:32AM 25 Q No 11:32AM 26 Q Yenh 11:32AM 27 Q Yenh 11:32AM 28 A the previous okay 11:32AM 29 Q Yenh 11:32AM 20 Q Yenh 11:32AM 21 A the previous okay 11:32AM 21 A the previous okay 11:32AM 22 Q Yenh 11:32AM 23 Q Yes 11:33AM 24 A or the "key" command 11:32AM 25 Q Yenh 11:32AM 26 Q Yenh 11:32AM 27 Q Yenh 11:32AM 28 A the previous okay 11:32AM 30 A "Ip ospf authentication" referred to enabling the 11:33AM 31 A "Ip ospf authentication" referred to enabling the 11:33AM 32 C Q Yenh 11:33AM 33 A "Ip ospf authentication" referred to enabling the 11:33AM 34 A "Ip ospf authentication" referred to enabling the 11:33AM 35 C clear text or it could be message digest on that 11:33AM 40 Cottober 1989; correct? 40 A Yes, 1 do 11:36AM 41:36AM 42 October 1989; correct? 41:36AM 42 October 1989; correct? 43 A Yes, 1 do 11:36AM 44 October 1989; correct? 45 A That is correct. 46 A Yes, 1 do 11:36AM 47 D What I actually was trying to ask you was: Do 11:33AM 48 A Okay 11:33AM 49 Q wasn't clear 11:33AM 40 What I actually was trying to ask you was: Do 11:33AM 41 Who came up with the expression "ip ospf authentication" 11:33AM 41 A So I can't tell you anything very specific, but 11:33AM 41 A So I can't tell you anything very specific, but 11:33AM 41 A So I can't tell you anything very specific, but 11:33AM 41 A So I can't tell you anything very specific, but 11:33AM 41 C hauges, which looks like it refers to You may also 11:33AM 41 C hauges, which looks like it refers to You may also 11:33AM 41 C hauges, which looks like it refers to You may also 11:33AM 41 C hauges, which looks like it refers to You may also 11:33AM 41 C hauges, which looks like it refers to You may also 11:33AM 41 C hauges, which looks like it refers to You may also		·	·
20 to when coming up with that expression? 11:32AM 21 A Are you asking for the previous command, which is 11:32AM 22 the "ip ospf authentication" — 11:32AM 22 the "ip ospf authentication" — 11:32AM 23 Q Yes 11:32AM 24 A or the "key" command — 11:32AM 25 tell me if you recognize it 11:36AM 25 tell me if you recognize it 11:36AM 26 tell me if you recognize it 11:36AM 27 tell me if you recognize it 11:36AM 27 tell me if you recognize it 11:36AM 28 tell me if you recognize it 11:36AM 29 tell me if you recognize it 11:36AM 29 tell me if you recognize it 11:36AM 20 tell me if you decomined and it is it if you know what documents or own as we said, it could be 11:33AM 20 tell me if you decomined as 11:33AM 20 tell me if you decomined as 11:33AM 20 tell me if you decomined as 11:33AM 20 tell me if you decomined as 11:33AM 20 tell me if you decomined as 11:33AM 20 tell me if you decomined as 11:33AM 20 tell me if you decomined as 11:33AM 20 tell me if you decomined as 11:33AM 20 tell me if you decomined as 11:33AM 20 tell	ŀ	` ' '	· ·
21 A Are you asking for the previous command, which is 11:32AM 22 the "ip ospf authentication" — 11:32AM 23 Q Yes 11:32AM 24 A or the "key" command — 11:32AM 25 Q No 11:32AM 26 A or the "key" command — 11:32AM 27 Q Yeah 11:32AM 28 A "Ip ospf authentication" referred to enabling the 11:32AM 3 A "Ip ospf authentication" referred to enabling the 11:32AM 4 authentification features — as we said, it could be 11:33AM 5 clear text or it could be message digest — on that 11:33AM 6 interface 11:33AM 7 Q Yeah, I apologize because my question — 11:33AM 8 A Okay 11:33AM 8 A Okay 11:33AM 9 Q wasn't clear 11:33AM 10 What I actually was trying to ask you was: Do 11:33AM 11 you know what documents or source materials the people 11:33AM 12 who came up with the expression "ip ospf authentication" 11:33AM 13 referred to when naming that command? 11:33AM 14 A So I can't tell you anything very specific, but 11:33AM 15 what typically happens, I can say, is when you write a 11:33AM 16 new command, of course, you will see source code 11:33AM 17 changes, which looks like it refers to You may also 11:33AM 18 produce customer-facing documents For example, we saw 11:33AM 19 conumand reference where also this will get documented as 11:33AM 19 conumand reference where also this will get documented as 11:33AM 19 conumand reference where also this will get documented as 11:33AM 10 what it does and what the syntax is and so on 11:33AM 11 you what it does and what the syntax is and so on 11:33AM 12 who came up with that acronym, to your 11:37AM 13 referred to when naming that command? 11:33AM 14 A So I can't tell you anything very specific, but 11:33AM 15 what typically happens, I can say, is when you write a 11:33AM 16 new command, of course, you will see source code 11:33AM 17 Q This document, in its title, uses the acronym 11:37AM 18 produce customer-facing documents For example, we saw 11:33AM 19 conumand reference where also this will get documented as 11:33AM 19 conumand reference where also this will get documented as 11:33AM 19	19	up with the expression "ip ospf authentication" referred 11:32AM	19 (Exhibit 56 was marked for 11:35AM
22 the "ip ospf authentication" — 11:32AM 23 Q Yes 11:32AM 23 tell me if you recognize it 11:36AM 24 A or the "key" command — 11:32AM 24 A Yes, I do 11:36AM 25 Q What is it? 11:36AM 26 Q No 11:32AM 27 Q Yeah 11:32AM 28 page 4 page 4 Quality of the previous okay 11:32AM 29 Q Yeah 11:32AM 29 Q Yeah 11:32AM 20 Q Yeah 11:32AM 20 Q Yeah 11:32AM 20 Q Yeah 11:32AM 20 Q Yeah 11:32AM 20 Q Yeah 11:32AM 20 Q Yeah 11:32AM 20 Q Yeah 11:32AM 20 Q Yeah 11:33AM 20 Q And this document states that it was published in 11:36AM 20 Q And this document states that it was published in 11:36AM 20 Q And this document states that it was published in 11:36AM 20 Q Yeah, I apologize because my question 11:33AM 20 Q And the author listed here is someone named 11:36AM 20 Q And the author listed here is someone named 11:36AM 20 Q And the company where he's listed as working is 11:36AM 20 Q And the company where he's listed as working is 11:37AM 20 What I actually was trying to ask you was: Do 11:33AM 21 Q October 1989; correct? 20 Q Yeah, I apologize because my question 11:33AM 21 Q Q And the company where he's listed as working is 11:36AM 20 Q Q What it does and what the expression "ip ospf authentication" 11:33AM 21 Q Do you know Mr. Moy? 21:37AM 21 Q Do you know Mr. Moy? 31:37AM 21 Q Do you know Mr. Moy? 31:37AM 21 Q Do you know Mr. Moy? 31:37AM 31 Q Do you know Mr. Moy? 31:37AM 32AM 32 Q Do you know Mr. Moy? 31:37AM 32AM 34 Q Do you know Mr. Moy? 31:37AM 34 Q Do you know Mr. Moy? 31:37AM 34 Q Do you know Mr. Moy? 31:37AM 34 Q Do you know Mr. Moy? 31:37AM 34 Q Do you know Mr. Moy? 31:37AM 34 Q Do you know Mr. Moy? 31:37AM 34 Q Do you know Mr. Moy? 31:37AM 34 Q Do you know Mr. Moy? 31:37AM 34 Q Do you know Mr. Moy? 31:37AM 34 Q Do you know Mr. Moy? 31:37AM 34 Q Do you know Mr. Moy? 31:37AM 34 Q Do you know Mr. Moy? 31:37AM 34 Q Do you know Mr. Moy? 31:37AM 34 Q Do you know Mr. Moy? 31:37AM 34 Q Do you know Mr. Moy? 31:37AM 34 Q Do you know Mr. Moy? 31:37AM 34 Q Do you know Mr. Moy? 31:37AM 34 Q Do you know Mr. Moy? 31:37AM 34 Q D	20	to when coming up with that expression? 11:32AM	20 identification by the Court Reporter) I1:35AM
23 Q Yes 11:32AM 24 A or the "key" command 11:32AM 25 Q No 11:32AM 25 Q What is it? 11:36AM 25 Q What is it? 11:36AM 26 Q Yesh 11:32AM 27 Specifies OSPF protocol, protocol specification. 11:36AM 36 A "Ip oper authentication" referred to enabling the 11:33AM 27 Q Yeah, I apologize because my question 11:33AM 28 A Okay 11:33AM 29 Q wasn't clear 11:33AM 29 Q wasn't clear 11:33AM 29 Q wasn't clear 11:33AM 29 Q wasn't clear 11:33AM 20 What I actually was trying to ask you was: Do 11:33AM 20 what it does and what the syntax is and so on 11:33AM 20 command, of course, you will see source code 11:33AM 20 command reference where also this will get documented as 11:33AM 20 command reference where also this will get documented as 11:33AM 20 command reference where also this will get documented as 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 Q Q Who who came up with that acronym, to your 11:37AM 20 What it does and what the syntax is and so on 11:33AM 20 Q Q Who who came up with that acronym, to your 11:37AM 20 Q Q Who who came up with that acronym, to your 11:37AM 20 Q Q Who who came up with that acronym, to your 11:37AM 20 Q Q Who who came up with that acronym, to your 11:37AM 20 Q Q Who who came up with that acronym, to your 11:37AM 20 What it does and what the syntax is and so on 11:33AM 20 Q Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Q Who who came up with that acro	21	A Are you asking for the previous command, which is 11:32 AM	21 BY MR SILBERT: 11:35AM
24 A or the "key" command 11:32AM	22	the "ip ospf authentication" 11:32 AM	22 Q Mr Roy, would you please look at Exhibit 56 and 11:36 AM
25 Q No 11:32AM Page 78 1 A - the previous okay 11:32AM 11:32AM 2 specifies OSPF protocol, protocol specification. 11:36AM 2 specifies OSPF protocol, protocol specification. 11:36AM 3 A "lp ospf authentication" referred to enabling the 11:33AM 4 October 1989; correct? 11:36AM 11:36AM 4 authentification features as we said, it could be 11:33AM 4 October 1989; correct? 11:36AM 11:36AM 5 clear text or it could be message digest on that 11:33AM 5 clear text or it could be message digest on that 11:33AM 6 interface 11:33AM 7 Q Yoah, I apologize because my question 11:33AM 7 J. Moy, M-o-y; is that correct? 11:36AM 11:36AM 8 A Okay 11:33AM 8 A Okay 11:33AM 9 Q wansn't clear 11:33AM 9 Q wansn't clear 11:33AM 11 you know what documents or source materials the people 11:33AM 12 who came up with the expression "ip ospf authentication" 11:33AM 12 who came up with the expression "ip ospf authentication" 11:33AM 13 referred to when naming that command? 11:33AM 14 A So I can't tell you anything very specific, but 11:33AM 15 what typically happens, I can say, is when you write a 11:33AM 16 new command, of course, you will see source code 11:33AM 16 new command, of course, you will see source end 11:33AM 17 changes, which looks like it refers to You may also 11:33AM 18 produce customer-facing documents For example, we saw 11:33AM 18 produce customer-facing documents For example, we saw 11:33AM 19 Q Do you know Mr. Moy? 11:37AM 11:37AM 18 produce customer-facing documents For example, we saw 11:33AM 19 Q This document, in its title, uses the acronym 11:37AM 18 OSPF; correct? 11:37AM 19 Q This document, in its title, uses the acronym 11:37AM 19 Q This document, in its title, uses the acronym 11:37AM 19 Q This document which the acronym, to you 11:37AM 19 Q This document which that acronym, to you 11:37AM 19 Q What it does and what the syntax is and so on 11:33AM 19 Q What it does and what the syntax is and so on 11:33AM 19 Q What it does and what the syntax is and so on 11:33AM 19 Q What it does and what the	23	Q Yes 11:32AM	23 tell me if you recognize it 11:36AM
Page 78 1 A the previous okay 11:32AM	24	A or the "key" command 11:32AM	24 A Yes, I do 11:36AM
1 A the previous okay 11:32AM 2 yeah 11:32AM 2 specifies OSPF protocol, protocol specification. 11:36AM 2 specifies OSPF protocol, protocol specification. 11:36AM 3 A "Ip ospf authentication" referred to enabling the 11:32AM 4 october 1989; correct? 11:36AM 5 clear text or it could be message digest on that 11:33AM 5 clear text or it could be message digest on that 11:33AM 6 interface 11:33AM 6 interface 11:33AM 7 Q Yeah, I apologize because my question 11:33AM 8 A Okay 11:33AM 8 A Okay 11:33AM 8 A Okay 11:33AM 9 Q wasn't clear 11:33AM 9 Q And the company where he's listed as working is 11:36AM 11 you know what documents or source materials the people 11:33AM 12 who came up with the expression "ip ospf authentication" 11:33AM 12 who came up with the expression "ip ospf authentication" 11:33AM 13 referred to when naming that command? 11:33AM 14 A So I can't tell you anything very specific, but 11:33AM 15 what typically happens, I can say, is when you write a 11:33AM 16 new command, of course, you will see source code 11:33AM 16 Not that I know of. 11:37AM 17 chauges, which looks like it refers to You may also 11:33AM 18 produce customer-facing documents For example, we saw 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 Q Who who came up with that acronym, to your 11:37AM 19 Q Who who came up with that acronym, to your 11:37AM 19 Q Who who came up with that acronym, to your 11:37AM 11:37AM 11:37AM 12:37AM 13:37AM 14 A Yes, it does 11:37AM 15:37AM 15:37AM 15:37AM 15:37AM 15:37AM 15:37AM 15:37AM 16:37AM 16:37AM 17:37AM 17:37AM 18:37AM 18:37AM 19:37AM	25	•	1
2 specifies OSPF protocol, protocol specification. 11:36AM 3 A "Ip ospf authentication" referred to enabling the 11:32AM 4 authentification features as we said, it could be 11:33AM 5 clear text or it could be message digest on that 11:33AM 6 interface 11:33AM 7 Q Yeah, I apologize because my question 11:33AM 8 A Okay 11:33AM 9 Q wasn't clear 11:33AM 10 What I actually was trying to ask you was: Do 11:33AM 11 you know what documents or source materials the people 11:33AM 12 who came up with the expression "ip ospf authentication" 11:33AM 13 referred to when naming that command? 11:33AM 14 A So I can't tell you anything very specific, but 11:33AM 15 what typically happens, I can say, is when you write a 11:33AM 16 new command, of course, you will see source code 11:33AM 17 chauges, which looks like it refers to You may also 11:33AM 18 produce customer-facing documents For example, we saw 11:33AM 19 conunand reference where also this will get documented as 11:33AM 20 what it does and what the syntax is and so on 11:33AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 21 Q Q Who who came up with that acronym, to your 11:37AM 21 Q Q Who who came up with that acronym, to your 11:37AM 21 Q Q Who who came up with that acronym, to your 11:37AM		Page 78	Page 8
2 specifies OSPF protocol, protocol specification. 11:36AM 3 A "Ip ospf authentication" referred to enabling the 11:32AM 4 authentification features as we said, it could be 11:33AM 5 clear text or it could be message digest on that 11:33AM 6 interface 11:33AM 7 Q Yeah, I apologize because my question 11:33AM 8 A Okay 11:33AM 8 A Okay 11:33AM 9 Q wasn't clear 11:33AM 10 What I actually was trying to ask you was: Do 11:33AM 11 you know what documents or source materials the people 11:33AM 12 who came up with the expression "ip ospf authentication" 11:33AM 13 referred to when naming that command? 11:33AM 14 A So I can't tell you anything very specific, but 11:33AM 15 what typically happens, I can say, is when you write a 11:33AM 16 new command, of course, you will see source code 11:33AM 17 changes, which looks like it refers to You may also 11:33AM 18 produce customer-facing documents For example, we saw 11:33AM 19 conunand reference where also this will get documented as 11:33AM 20 what it does and what the syntax is and so on 11:33AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 21 Q Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM	1	A the previous okay 11:32 AM	1 A This is another of OSPF standards RFC, which 11:36AN
3 A "Ip ospf authentication" referred to enabling the 11:32AM 4 authentification features as we said, it could be 11:33AM 5 clear text or it could be message digest on that 11:33AM 6 interface 11:33AM 7 Q Yeah, I apologize because my question 11:33AM 8 A Okay 11:33AM 8 A Okay 11:33AM 9 Q wasn't clear 11:33AM 10 What I actually was trying to ask you was: Do 11:33AM 11 you know what documents or source materials the people 11:33AM 12 who came up with the expression "ip ospf authentication" 11:33AM 13 referred to when naming that command? 11:33AM 14 A So I can't tell you anything very specific, but 11:33AM 15 what typically happens, I can say, is when you write a 11:33AM 16 new command, of course, you will see source code 11:33AM 17 chauges, which looks like it refers to You may also 11:33AM 18 produce customer-facing documents For example, we saw 11:33AM 19 conunand reference where also this will get document das 11:33AM 10 what it does and what the syntax is and so on 11:33AM 11 occument, he was employed by Proteon, Inc. 11:37AM 12 document, in its title, uses the acronym 11:37AM 15 Q Did he ever work for Cisco? 11:37AM 16 A Not that I know of, 11:37AM 17 Q This document, in its title, uses the acronym 11:37AM 18 OSPF; correct? 11:37AM 19 Q Owhat it does and what the syntax is and so on 11:33AM 20 Who who came up with that acronym, to your 11:37AM	2	· · · · · · · · · · · · · · · · · · ·	
4 authentification features as we said, it could be 11:33AM 5 clear text or it could be message digest on that 11:33AM 6 interface 11:33AM 7 Q Yeah, I apologize because my question 11:33AM 8 A Okay 11:33AM 9 Q wasn't clear 11:33AM 10 What I actually was trying to ask you was: Do 11:33AM 11 you know what documents or source materials the people 11:33AM 12 who came up with the expression "ip ospf authentication" 11:33AM 13 referred to when naming that command? 11:33AM 14 A So I can't tell you anything very specific, but 11:33AM 15 what typically happens, I can say, is when you write a 11:33AM 16 new command, of course, you will see source code 11:33AM 17 changes, which looks like it refers to You may also 11:33AM 18 produce customer-facing documents For example, we saw 11:33AM 19 conunand reference where also this will get documented as 11:33AM 20 what it does and what the syntax is and so on 11:33AM 20 Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM	3		
5 clear text or it could be message digest on that 11:33AM 6 interface 11:33AM 7 Q Yeah, I apologize because my question 11:33AM 8 A Okay 11:33AM 9 Q wasn't clear 11:33AM 10 What I actually was trying to ask you was: Do 11:33AM 11 you know what documents or source materials the people 11:33AM 12 who came up with the expression "ip ospf authentication" 11:33AM 13 referred to when naming that command? 11:33AM 14 A So I can't tell you anything very specific, but 11:33AM 15 what typically happens, I can say, is when you write a 11:33AM 16 new command, of course, you will see source code 11:33AM 17 changes, which looks like it refers to You may also 11:33AM 18 produce customer-facing documents For example, we saw 11:33AM 19 command reference where also this will get documented as 11:33AM 20 what it does and what the syntax is and so on 11:33AM 20 What it does and what the syntax is and so on 11:33AM 20 Who who came up with that acronym, to your 11:37AM 21 do Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM			
6 interface 11:33AM 6 Q And the author listed here is someone named 11:36AM 7 Q Yeah, I apologize because my question 11:33AM 7 J. Moy, M-o-y; is that correct? 11:36AM 8 A Okay 11:33AM 8 A Yes. John Moy was the author. 11:36AM 9 Q wasn't clear 11:33AM 9 Q wasn't clear 11:33AM 10 What I actually was trying to ask you was: Do 11:33AM 10 Proteon, Inc.; is that correct? 11:37AM 11 you know what documents or source materials the people 11:33AM 11 A Correct, so at the time of publication of this 11:37AM 12 who came up with the expression "ip ospf authentication" 11:33AM 12 document, he was employed by Proteon, Inc. 11:37AM 13 referred to when naming that command? 11:33AM 14 A So I can't tell you anything very specific, but 11:33AM 15 what typically happens, I can say, is when you write a 11:33AM 15 Q Did he ever work for Cisco? 11:37AM 16 new command, of course, you will see source code 11:33AM 16 A Not that I know of. 11:37AM 17 chauges, which looks like it refers to You may also 11:33AM 16 A Not that I know of. 11:37AM 18 produce customer-facing documents For example, we saw 11:33AM 19 command reference where also this will get documented as 11:33AM 19 Command reference where also this will get documented as 11:33AM 19 Q Who who came up with that acronym, to your 11:37AM 10 Q Who who came up with that acronym, to your 11:37AM			i .
7 J. Moy, M-o-y; is that correct? 11:36AM 8 A Okay 11:33AM 8 A Yes. John Moy was the author. 11:36AM 9 Q wasn't clear 11:33AM 9 Q And the company where he's listed as working is 11:36AM 10 What I actually was trying to ask you was: Do 11:33AM 10 Proteon, Inc.; is that correct? 11:37AM 11 you know what documents or source materials the people 11:33AM 11 A Correct, so at the time of publication of this 11:37AM 12 who came up with the expression "ip ospf authentication" 11:33AM 12 document, he was employed by Proteon, Inc. 11:37AM 13 referred to when naming that command? 11:33AM 13 Q Do you know Mr. Moy? 11:37AM 14 A So I can't tell you anything very specific, but 11:33AM 14 A Yes, I do. 11:37AM 15 what typically happens, I can say, is when you write a 11:33AM 15 Q Did he ever work for Cisco? 11:37AM 16 new command, of course, you will see source code 11:33AM 16 A Not that I know of. 11:37AM 17 chauges, which looks like it refers to You may also 11:33AM 18 produce customer-facing documents For example, we saw 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 Conunand reference where also this will get documented as 11:33AM 19 A Yes, it does. 11:37AM 18 OSPF; correct? 11:37AM 19 A Yes, it does. 11:37AM 10 What it does and what the syntax is and so on 11:33AM 10 Q Who who came up with that acronym, to your 11:37AM			
8 A Okay 11:33AM 9 Q wasn't clear 11:33AM 10 What I actually was trying to ask you was: Do 11:33AM 11 you know what documents or source materials the people 11:33AM 12 who came up with the expression "ip ospf authentication" 11:33AM 13 referred to when naming that command? 14 A So I can't tell you anything very specific, but 11:33AM 15 what typically happens, I can say, is when you write a 11:33AM 16 new command, of course, you will see source code 11:33AM 17 changes, which looks like it refers to You may also 11:33AM 18 produce customer-facing documents For example, we saw 11:33AM 19 conunand reference where also this will get documented as 11:33AM 20 what it does and what the syntax is and so on 11:33AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM			
9 Q wasn't clear 11:33AM 10 What I actually was trying to ask you was: Do 11:33AM 11 you know what documents or source materials the people 11:33AM 12 who came up with the expression "ip ospf authentication" 11:33AM 12 document, he was employed by Proteon, Inc. 11:37AM 13 referred to when naming that command? 11:33AM 13 Q Do you know Mr. Moy? 11:37AM 14 A So I can't tell you anything very specific, but 11:33AM 15 what typically happens, I can say, is when you write a 11:33AM 16 new command, of course, you will see source code 11:33AM 16 A Not that I know of. 11:37AM 17 chauges, which looks like it refers to You may also 11:33AM 17 Q This document, in its title, uses the acronym 11:37AM 18 produce customer-facing documents For example, we saw 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym 20 Q Who who came up with that acronym 20 Q Who who came up with that acronym 20 Q Who who came up wi			
10 What I actually was trying to ask you was: Do 11:33AM 11 you know what documents or source materials the people 11:33AM 12 who came up with the expression "ip ospf authentication" 11:33AM 13 referred to when naming that command? 11:33AM 14 A So I can't tell you anything very specific, but 11:33AM 15 what typically happens, I can say, is when you write a 11:33AM 16 new command, of course, you will see source code 11:33AM 17 chauges, which looks like it refers to You may also 11:33AM 18 produce customer-facing documents For example, we saw 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 conunand reference where also this will get documented as 11:33AM 20 Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM		•	
11 you know what documents or source materials the people 11:33AM 12 who came up with the expression "ip ospf authentication" 11:33AM 13 referred to when naming that command? 11:33AM 14 A So I can't tell you anything very specific, but 11:33AM 15 what typically happens, I can say, is when you write a 11:33AM 16 new command, of course, you will see source code 11:33AM 17 chauges, which looks like it refers to You may also 11:33AM 18 produce customer-facing documents For example, we saw 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 conunand reference where also this will get documented as 11:33AM 20 what it does and what the syntax is and so on 11:33AM 20 Q Who who came up with that acronym, to your 11:37AM 21 A Correct, so at the time of publication of this 11:37AM 21 document, he was employed by Proteon, Inc. 11:37AM 22 Do you know Mr. Moy? 11:37AM 23 Q Do you know Mr. Moy? 11:37AM 24 A Yes, I do. 11:37AM 25 Q Did he ever work for Cisco? 11:37AM 26 A Not that I know of. 11:37AM 27 Q This document, in its title, uses the acronym 11:37AM 28 OSPF; correct? 11:37AM 29 Q Who who came up with that acronym, to your 11:37AM			
12 who came up with the expression "ip ospf authentication" 11:33AM 13 referred to when naming that command? 11:33AM 14 A So I can't tell you anything very specific, but 11:33AM 15 what typically happens, I can say, is when you write a 11:33AM 16 new command, of course, you will see source code 11:33AM 17 chauges, which looks like it refers to You may also 11:33AM 18 produce customer-facing documents For example, we saw 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 conunand reference where also this will get documented as 11:33AM 20 what it does and what the syntax is and so on 11:33AM 20 Q Who who came up with that acronym, to your 11:37AM 21 document, he was employed by Proteon, Inc. 11:37AM 22 Do you know Mr. Moy? 11:37AM 23 Q Do you know Mr. Moy? 11:37AM 24 A Yes, I do. 11:37AM 25 Q Did he ever work for Cisco? 11:37AM 26 A Not that I know of. 11:37AM 27 Q This document, in its title, uses the acronym 11:37AM 28 OSPF; correct? 11:37AM 29 Q Who who came up with that acronym, to your 11:37AM			
13 referred to when naming that command? 11:33AM 13 Q Do you know Mr. Moy? 11:37AM 14 A So I can't tell you anything very specific, but 11:33AM 14 A Yes, I do. 11:37AM 15 what typically happens, I can say, is when you write a 11:33AM 15 Q Did he ever work for Cisco? 11:37AM 16 new command, of course, you will see source code 11:33AM 16 A Not that I know of. 11:37AM 17 chauges, which looks like it refers to You may also 11:33AM 17 Q This document, in its title, uses the acronym 11:37AM 18 produce customer-facing documents For example, we saw 11:33AM 18 OSPF; correct? 11:37AM 19 conunand reference where also this will get documented as 11:33AM 19 A Yes, it does. 11:37AM 20 What it does and what the syntax is and so on 11:33AM 20 Q Who who came up with that acronym, to your 11:37AM 20 Q Who who came up with that acronym, to your 11:37AM 21:37AM 20 Q Who who came up with that acronym, to your 11:37AM 21:37AM 22:37AM 23.		• • •	-
14 A So I can't tell you anything very specific, but 11:33AM 15 what typically happens, I can say, is when you write a 11:33AM 16 new command, of course, you will see source code 11:33AM 17 chauges, which looks like it refers to You may also 11:33AM 18 produce customer-facing documents For example, we saw 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 A Yes, I do. 11:37AM 10 A Yes, I do. 11:37AM 11:37AM 12 O This document, in its title, uses the acronym 11:37AM 13 OSPF; correct? 11:37AM 14 A Yes, I do. 11:37AM 15 Q Did he ever work for Cisco? 11:37AM 16 A Not that I know of. 11:37AM 17 Q This document, in its title, uses the acronym 11:37AM 18 OSPF; correct? 11:37AM 19 A Yes, it does. 11:37AM 20 Who who came up with that acronym, to your 11:37AM			
15 what typically happens, I can say, is when you write a 11:33AM 16 new command, of course, you will see source code 11:33AM 17 chauges, which looks like it refers to You may also 11:33AM 18 produce customer-facing documents For example, we saw 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 what it does and what the syntax is and so on 11:33AM 20 what it does and what the syntax is and so on 11:33AM 20 Q Who who came up with that acronym, to your 11:37AM		•	
16 new command, of course, you will see source code 11:33AM 16 A Not that I know of. 11:37AM 17 chauges, which looks like it refers to You may also 11:33AM 17 Q This document, in its title, uses the acronym 11:37AM 18 produce customer-facing documents. For example, we saw 11:33AM 18 OSPF; correct? 11:37AM 19 command reference where also this will get documented as 11:33AM 19 A Yes, it does. 11:37AM 20 What it does and what the syntax is and so on 11:33AM 20 Q Who who came up with that acronym, to your 11:37AM			·
17 chauges, which looks like it refers to You may also 11:33AM 18 produce customer-facing documents. For example, we saw 11:33AM 19 conunand reference where also this will get documented as 11:33AM 19 what it does and what the syntax is and so on 11:33AM 20 what it does and what the syntax is and so on 11:33AM 20 Who who came up with that acronym, to your 11:37AM			
18 produce customer-facing documents. For example, we saw 11:33AM 19 conumand reference where also this will get documented as 11:33AM 20 what it does and what the syntax is and so on 11:33AM 20 Who who came up with that acronym, to your 11:37AM			
19 conunand reference where also this will get documented as 11:33AM 20 what it does and what the syntax is and so on 11:33AM 20 Q Who who came up with that acronym, to your 11:37A	17	chauges, which looks like it refers to You may also 11:33AM	17 Q This document, in its title, uses the acronym 11:37AM
20 what it does and what the syntax is and so on 11:33AM 20 Q Who who came up with that acronym, to your 11:37A	18	produce customer-facing documents For example, we saw 11:33AM	
	19	conunand reference where also this will get documented as 11:33AM	19 A Yes, it does. 11:37AM
21 O Okay And just to be clear you are saying 11:33AM 21 knowledge? 11:37AM	20	what it does and what the syntax is and so on 11:33AM	20 Q Who who came up with that acronym, to your 11:37AN
21 Constant And start to be creat, you are saying 11.55AM	21	Q Okay And just to be clear, you are saying 11:33AM	21 knowledge? 11:37AM
22 that's what typically happens because you don't know 11:34AM 22 A So I think I'll give you the same answer I gave 11:37AM	22	that's what typically happens because you don't know 11:34AM	22 A So I think I'll give you the same answer I gave 11:37AM
23 what the person or persons who named the command 11:34AM 23 for BFD. If you move to the page 1, which is 2601 in 11:37Af	23	what the person or persons who named the command 11:34AM	23 for BFD. If you move to the page 1, which is 2601 in 11:37AM
24 "ip ospf authentication" actually referred to when they 11:34AM 24 the bottom-right label, and if you see Section 1, talks 11:37AM	24	"ip ospf authentication" actually referred to when they 11:34AM	24 the bottom-right label, and if you see Section 1, talks 11:37AM
25 named that command; is that correct? 11:34AM 25 about the first time that abbreviation was introduced, 11:37AM	25	named that command; is that correct? 11:34AM	25 about the first time that abbreviation was introduced, 11:37AM
Page 79 Page 8		Page 79	Page 81

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 107 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

1 and that's very typical in IETF standards, that the long 11:38AM	1 A Yeah, I see that. II:41AM
2 things we create acronym at the first reference and 11:38AM	2 Q What is an area data structure in OSPF? 11:41AM
3 continue to use it in this document 11:38AM	3 MR. NEUKOM: Objection; calls for opinion 11:41AM
4 Q So my question is just this: So far as you know, 11:38AM	4 testimony. 11:41AM
5 someone outside of Cisco came up with the acronym OSPF; 11:38AM	5 THE WITNESS: So "data structure" is is a 11:41AM
6 correct? 11:38AM	6 computer science terminology which is how you store 11:41AM
7 A So IETF IETF products is a complicated 11:38AM	7 data, potentially, in a software implementation. 11:41AM
8 process, and let me just give you a quick glimpse of it 11:38AM	8 "Area" is a concept introduced in this RFC 11:41AM
9 What you are seeing is the finished product, 11:38AM	9 which which refers to a collection of devices which 11:42AM
10 which John Moy was the lead author and he took it to the 11:38AM	10 have which are in the same area or who make a 11:42AM
11 RFC 11:38AM	11 collective decision together by by knowing each 11:42AM
What happened before that and how many versions 11:38AM	12 other's state up front. 11:42AM
13 were there and who are the people who sort of worked and 11:38AM	13 So Internet data structure, I think, is going 11:42AM
14 collaborated to get to tlus stage, you can find that 11:38AM	14 into, if you had such a collection of objects, these are 11:42AM
15 information, that how many earlier revisions of the 11:38AM	15 the objects you probably want to keep in that collection 11:42AM
16 drafts are there, who are the collaborator, where they 11:38AM	16 of objects. 11:42AM
17 worked for whichever companies they worked for, 11:39AM	17 BY MR, SILBERT: 11:42AM
18 right? and how did they come to this 11:39AM	18 Q Okay. Okay. Would you look at two pages more 11:42AM
19 So it's hard to say, just looking at this, who 11:39AM	19 at on the page that ends with the Bates No. 624. 11:42AM
20 came with this and who coined the tenn or who coined the 11:39AM	20 A Yes, 11:42AM
21 acronym OSPF 11:39AM	21 Q And do you see the bolded term "authentication 11:42AM
	22 type"? It's in the top third 11:42AM
22 Q Okay But nevertheless, that acronym was in 11:39AM	
23 common usage before it was used by Cisco in a CLI 11:39AM	-
24 command; correct? 11:39AM	1 0
25 MR NEUKOM: Objection; calls for opinion 11:39AM Page 82	25 A Yeah, I see that. 11:42AM Page 84
1 testimony. 11:39AM	I Q Under the OSPF standard, does an operator specify 11:42 AM
2 THE WITNESS: So I don't know when Cisco 11:39AM	2 the authentification type to be used for an area? 11:43AM
3 implemented OSPF first, so it's hard to say what 11:39AM	3 MR NEUKOM: Objection; vague, calls for opinion 11:43AM
4 happened first. 11:39AM	4 testimony 11:43AM
5 Again, a corollary comment, a lot of times Cisco 11:39AM	5 THE WITNESS: So as per this document, what was 11:43AM
6 is is the driver of technologies, and we implement 11:39AM	6 described here is in a area you could specify if 11:43AM
7 things, and then we publish standards off it, so there 11:39AM	7 authentication is in use, and I think it also refers to 11:43AM
8 could be a coincidence where it has been used in Cisco 11:39AM	8 this other section where you can find details of what 11:43AM
9 before or or in a standard document before again, 11:39AM	9 types of authentication, Appendix E 11:43 AM
10 I don't know enough history on this that what happened 11:40AM	10 As a as a operator, you may or may not choose 11:43AM
11 when. 11:40AM	
	II to have authentication That is totally up to you If II:43AM
12 BY MR. SILBERT: 11:40AM	11 to have authentication That is totally up to you 1f 11:43AM 12 you think your network is very secure, you may choose to 11:43AM
12 BY MR. SILBERT: 11:40AM 13 Q Okay. You are going to agree with me, though, I 11:40AM	
	12 you think your network is very secure, you may choose to 11:43AM
13 Q Okay. You are going to agree with me, though, I 11:40AM	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication If you really want to secure 11:43AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication If you really want to secure 11:43AM 14 your network, there are a variety of ways to 11:43AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right? 11:40AM	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication. If you really want to secure. 11:43AM 14 your network, there are a variety of ways to 11:43AM 15 authenticate it, and this just refers to that what 11:43AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right? 11:40AM 16 A The document does create the acronym for the use 11:40AM	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication. If you really want to secure. 11:43AM 14 your network, there are a variety of ways to 11:43AM 15 authenticate it, and this just refers to that what 11:43AM 16 mechanisms exist at the area level. 11:44AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right? 11:40AM 16 A The document does create the acronym for the use 11:40AM 17 for the document. 11:40AM	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication. If you really want to secure. 11:43AM 14 your network, there are a variety of ways to. 11:43AM 15 authenticate it, and this just refers to that what. 11:43AM 16 mechanisms exist at the area level. 11:44AM 17 BY MR SILBERT: 11:44AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right? 11:40AM 16 A The document does create the acronym for the use 11:40AM 17 for the document. 11:40AM 18 Q Okay. Would you turn to the page that ends in 11:40AM	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication. If you really want to secure. 11:43AM 14 your network, there are a variety of ways to. 11:43AM 15 authenticate it, and this just refers to that what 11:43AM 16 mechanisms exist at the area level. 11:44AM 17 BY MR SILBERT: 11:44AM 18 Q Okay. And would you agree that authentication is 11:44AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right? 11:40AM 16 A The document does create the acronym for the use 11:40AM 17 for the document. 11:40AM 18 Q Okay. Would you turn to the page that ends in 11:40AM 19 the Bates No. 622? 11:40AM	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication. If you really want to secure. 11:43AM 14 your network, there are a variety of ways to 11:43AM 15 authenticate it, and this just refers to that what 11:43AM 16 mechanisms exist at the area level. 11:44AM 17 BY MR SILBERT: 11:44AM 18 Q Okay. And would you agree that authentication is 11:44AM 19 a concept that's introduced in this OSPF specification? 11:44AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right? 11:40AM 16 A The document does create the acronym for the use 11:40AM 17 for the document. 11:40AM 18 Q Okay. Would you turn to the page that ends in 11:40AM 19 the Bates No. 622? 11:40AM 20 MR. NEUKOM: Sorry, what page, David? 11:40AM 21 MR. SILBERT: Bates No. 622. 11:40AM	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication. If you really want to secure. 11:43AM 14 your network, there are a variety of ways to 11:43AM 15 authenticate it, and this just refers to that what 11:43AM 16 mechanisms exist at the area level. 11:44AM 17 BY MR SILBERT: 11:44AM 18 Q Okay. And would you agree that authentication is 11:44AM 19 a concept that's introduced in this OSPF specification? 11:44AM 20 MR NEUKOM: Objection; calls for opinion. 11:44AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right? 11:40AM 16 A The document does create the acronym for the use 11:40AM 17 for the document. 11:40AM 18 Q Okay. Would you turn to the page that ends in 11:40AM 19 the Bates No. 622? 11:40AM 20 MR. NEUKOM: Sorry, what page, David? 11:40AM 21 MR. SILBERT: Bates No. 622. 11:40AM	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication If you really want to secure 11:43AM 14 your network, there are a variety of ways to 11:43AM 15 authenticate it, and this just refers to that what 11:43AM 16 mechanisms exist at the area level 11:44AM 17 BY MR SILBERT: 11:44AM 18 Q Okay And would you agree that authentication is 11:44AM 19 a concept that's introduced in this OSPF specification? 11:44AM 20 MR NEUKOM: Objection; calls for opinion 11:44AM 21 testimony and vague 11:44AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right?	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication. If you really want to secure. 11:43AM 14 your network, there are a variety of ways to. 11:43AM 15 authenticate it, and this just refers to that what 11:43AM 16 mechanisms exist at the area level. 11:44AM 17 BY MR SILBERT:. 11:44AM 18 Q Okay. And would you agree that authentication is 11:44AM 19 a concept that's introduced in this OSPF specification? 11:44AM 20 MR NEUKOM: Objection; calls for opinion. 11:44AM 21 testimony and vague. 11:44AM 22 THE WITNESS: This document has used the term. 11:44AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right?	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication. If you really want to secure. 11:43AM 14 your network, there are a variety of ways to 11:43AM 15 authenticate it, and this just refers to that what 11:43AM 16 mechanisms exist at the area level. 11:44AM 17 BY MR SILBERT: 11:44AM 18 Q Okay. And would you agree that authentication is 11:44AM 19 a concept that's introduced in this OSPF specification? 11:44AM 20 MR NEUKOM: Objection; calls for opinion. 11:44AM 21 testimony and vague. 11:44AM 22 THE WITNESS: This document has used the term. 11:44AM 23 "authentication," but basically what we are talking. 11:44AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right?	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication. If you really want to secure. 11:43AM 14 your network, there are a variety of ways to 11:43AM 15 authenticate it, and this just refers to that what 11:43AM 16 mechanisms exist at the area level. 11:44AM 17 BY MR SILBERT: 11:44AM 18 Q Okay. And would you agree that authentication is 11:44AM 19 a concept that's introduced in this OSPF specification? 11:44AM 20 MR NEUKOM: Objection; calls for opinion. 11:44AM 21 testimony and vague. 11:44AM 22 THE WITNESS: This document has used the term. 11:44AM 23 "authentication," but basically what we are talking. 11:44AM 24 about is: Are there ways are there ways to validate? 11:44AM

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 108 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

I MR SILBERT: Okay We need to change the tape, 11:44AM	1 Q there is a bold entry "authentication type." 12:25PM
2 so we will have to pause there 11:44AM	2 Do you see that? 12:25PM
3 THE VIDEOGRAPHER: This marks the end of 11:44AM	3 A Yes. 12:25PM
4 Volume 1, Media No 1 of the deposition of Abhay Roy 11:44AM	4 Yeah, so what what that in the what 12:25PM
5 The time is 11:44 a m We are off the record 11:44AM	5 is what it's trying to say in the RFC is if you have 12:25PM
6 (Lunch recess taken) 11:44AM	6 for area some objects one of the objects is the 12:25PM
700o 11:44AM	7 authentication type. That's what that document is 12:25PM
8 11:44AM	8 talking about. 12:25PM
9	9 Q And the the document is getting at the idea 12:25PM
10	10 that an operator can set the authentification type for 12:25PM
11	11 objects in an area; correct? 12:25PM
12	12 MR. NEUKOM: Objection; document speaks for 12:25P
13	13 itself, calls for opinion testimony. 12:25PM
14	14 THE WITNESS: Yeah, so document is talking about, 12:26P
15	15 at the area scope, if you support authentication, you 12:26PM
16	16 probably want to store objects related to the 12:26PM
	17 authentication in that type of data store. 12:26PM
17	18 BY MR. SILBERT: 12:26PM
18	
19	19 Q Okay. So looking at the command "ip ospf 12:26PM
20	20 authentication," the term "ip" in that command refers to 12:26PM
21	21 the Internet protocol standard; right? 12:26PM
22	22 MR. NEUKOM: Objection; misstates prior 12:26PM
23	23 testimony. 12:26PM
24	24 THE WITNESS: "ip" in that command refers to 12:26PM
25 Page 86	25 Internet Protocol Version 4. 12:26PM Page 88
rage so	r age oo
1 AFTERNOON SESSION 12:24 P M 11:44AM	1 BY MR SILBERT: 12:26PM
2 12:24PM	2 Q Okay And that's a standard that's published by 12:26PM
3 THE VIDEOGRAPHER: We are back on the record at 12:24PM	3 the fETF; correct? 12:26PM
4 12:24 p m 12:24 PM	4 A Internet protocol is an RFC 791, which is 12:26PM
5 This marks the beginning of Volume 1, Media No 2 12:24PM	5 published by the IETF, yes 12:26PM
6 of the deposition of Abhay Roy 12:24PM	6 Q Right 12:27PM
7 Please continue 12:24PM	7 And and 791 might be an earlier version, but 12:27PM
8 BY MR SILBERT: 12:24PM	8 are you aware that there's a separate RFC that's a 12:27PM
9 Q Good afternoon, Mr Roy 12:24PM	9 standard for Internet Protocol 4? 12:27PM
Before the lunch break, we were talking about the 12:24PM	10 A 1 don't know exactly if if there is a one 12:27PM
11 command "ip ospf authentication " 12:24PM	11 there is a version later than this which supersedes 12:27PM
12 Do you recall that? 12:24PM	12 this 12:27PM
13 A Yes, I do 12:24PM	13 Q Okay 12:27PM
14 Q Do you agree that authentication is a parameter 12:24PM	14 A but there might be; might not be not aware 12:27PM
15 that's introduced in the OSPF specification? 12:24PM	15 Q Okay And in the command "ip ospf 12:27PM
16 MR NEUKOM: Objection; vague, calls for opinion 12:24PM	16 authentication," "ospf" refers to the OSPF 12:27PM
17 THE WITNESS: 1 think you referred me to some 12:24PM	17 specification, Exhibit 56; correct? 12:27PM
18 section Could you point me to that again? 12:24PM	18 MR NEUKOM: Objection; misstates prior 12:27PM
· · ·	19 testimony 12:27PM
19 MR SILBERT: Yeah We were looking at the page 12:24PM	1
20 that ends in Bates No. 624 in Exhibit 56, which is the 12:24PM	20 THE WITNESS: So OSPF command or this command, 12:27PM
21 OSPF specification dated October 1989 12:25PM	21 which is in Cisco's implementation, refers to the 12:27PM
22 THE WITNESS: Was that 624? 12:25PM	22 protocol called "OSPF," which is documented in an IETF 12:27PM
23 MR SILBERT: Yes 12:25PM	23 stand [ETF RFC 12:28PM
24 Q Yeah, in the top third of the page 12:25PM	24 BY MR SILBERT: 12:28PM
25 A Oh, yes Yes Sorry, my bad 12:25PM Page 87	25 Q Okay And in the term "ip ospf authentication," 12:28PM Page 89

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 109 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

1 the term "authentication" refers to an authentication 12:28PM	1 drawπ on in coming up with the expression "ip ospf 12:30PM
2 parameter that's described in the OSPF standard; 12:28PM	2 authentication"; correct? 12:31PM
3 correct? 12:28PM	3 MR NEUKOM: Objection; asked and answered 12:31PM
4 MR NEUKOM: Objection; calls for opinion 12:28PM	4 THE WITNESS: Resources could you could you 12:31PM
5 testimony and document speaks for itself 12:28PM	5 rephrase what resources? 12:31PM
6 THE WITNESS: So OSPF RFC does use the language 12:28PM	6 MR SILBERT: Sure 12:31PM
7 "authentication," and Cisco's CLI also happens to use 12:28PM	7 Q Do you know if the person or people who came up 12:31PM
8 the lauguage "authentication"; although, we are 12:28PM	8 with this expression had the OSPF standard in front of 12:31PM
9 primarily talking about how to secure, how to validate 12:28PM	9 them when they came up with the expression? 12:31PM
	10 A Again, I can't say that with with certainty 12:31PM
	11 They may or may not have referred to the standard 12:31PM
12 Q Okay Are you saying that your command uses 12:28PM	12 Q Okay And do you know whether the person or 12:31PM
13 "authentication" in a different way than the standard 12:28PM	13 people who came up with this expression derived it from 12:31PM
14 does? 12:28PM	14 a pre-existing expression? 12:31PM
15 A So the so the section we are looking at in the 12:28PM	15 MR NEUKOM: Objection; calls for opinion 12:31PM
16 standard is at the area scope versus the command we are 12:28PM	16 testimony and legal conclusion 12:31PM
17 looking at is at the interface scope They are two 12:29PM	17 THE WITNESS: Yeah, so I have some more context 12:31PM
18 different things The scope is different 12:29PM	18 on that 12:31PM
19 Q I see Okay 12:29PM	19 What you just saw in in the RFC what I was 12:31PM
20 I think we have covered this in general, but I 12:29PM	20 saying, it's area scope Cisco actually supports that 12:31PM
21 just want to be clear 12:29PM	21 command also There is a similar command at the area 12:31PM
22 Is it correct that you do not know who actually 12:29PM	22 scope 12:32PM
23 named the command "ip ospf authentication" at Cisco? 12:29PM	23 When when we did this, this was sort of over 12:32PM
24 A So as 1 as I have said in the past, I was part 12:29PM	24 and beyond what standards do, and this is where Cisco's 12:32PM
25 of the team I did participate in the team to come up 12:29PM	25 value-add came in We saw people who wanted to do this 12:32PM
Page 90	Page 92
1 with this. Was it exactly my idea or somebody else's 12:29PM	1 type of behavior in specific interfaces and not all 12:32PM
2 idea? That I don't specifically recall, but I was part 12:29PM	2 interfaces which are part of an area So this was 12:32PM
3 of the team who came up with the the keyword, and I 12:29PM	3 created to be similar to what the area command Cisco 12:32PM
4 was part of the team which was doing the implementation. 12:29PM	
•	1 4 already has 12:32PM 5 BY MR SILBERT: 12:32PM
6 actual process of coming up with this command; correct? 12:29PM 7 MR. NEUKOM: Objection: misstates prior 12:29PM	6 Q Okay And is that area command that Cisco 12:32PM 7 already had "ip ospf authentication-key"? 12:32PM
, , , , , , , , , , , , , , , , , , , ,	
8 testimony. 12:30PM	8 A No That is we are still looking at interface 12:32PM
9 THE WITNESS: Specifically what happened for this 12:30PM	9 scope commands It will be probably in a different 12:32PM
10 particular command and what process, I don't have a 12:30PM	10 context 1t will be under routing context, and the 12:32PM
11 specific memory, but as I have said earlier, the way the 12:30PM	11 command will be called different I don't recall what 12:32PM
12 process is, is one or or more engineers come up with 12:30PM	12 the command is exactly called, but that is not the 12:32PM
13 certain set of keywords. We have a discussion, And 12:30PM	13 command 12:32PM
14 then we arrive at what finally happens. And then there 12:30PM	14 Q Okay What what is the command that you are 12:32PM
15 was more about parser police, but I'll not go into that. 12:30PM	15 saying the command "ip ospf authentication" was designed 12:33PM
16 BY MR. SILBERT: 12:30PM	16 to be similar to? 12:33PM
17 Q Okay. And with respect to this command, you 12:30PM	17 MR NEUKOM: Objection; misstates prior 12:33PM
18 don't know who came up with the expression; correct? 12:30PM	18 testimony 12:33PM
19 MR. NEUKOM: Objection; asked and answered. 12:30PM	19 THE WITNESS: 1 don't recall the exact syntax of 12:33PM
20 THE WITNESS: So I participated in the team of 12:30PM	20 that command, but it will be it will be in a 12:33PM
21 engineers who came up with this, but I can't tell you 12:30PM	21 different context It will be in the router context, 12:33PM
22 exactly the engineer who uttered the word, "This is 12:30PM	22 not in the interface context 12:33PM
23 exactly what we should call it." 12:30PM	23 BY MR SILBERT: 12:33PM
24 BY MR. SILBERT: 12:30PM	24 Q How would I find that command if I wanted to find 12:33 PM
25 Q Okay. And you don't know what resources were 12:30PM	25 it? 12:33PM
Page 91	Page 93

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 110 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

INGILET COTT IDENTIFIE	THE COLUMN TO LET US OF US
1 A If you saw a complete reference of OSPF 12:33PM 2 configuration on a device, we could find it from there. 12:33PM	1 A-c-e-e, Lindem, L-i-n-d-e-m, but I'm not 100 percent 12:37PM 2 sure if he was still on that team or he left Cisco by 12:37PM
3 Q What would I look for to find it? 12:33PM	3 that time. 12:37PM
4 A You could search for keywords like "area" or 12:33PM	4 Q Okay. Can you remember any other names of people 12:37PN
5 "authentication." 12:33PM	5 who were on the team? 12:37PM
6 Q Okay. Who else was on the team who came up with 12:33P	M 6 A Nothing is coming to my head. 12:37PM
7 the command "ip ospf authentication"? 12:33PM	7 Q Okay. Referring back to Exhibit 54, would you 12:38PM
8 A So I'm trying to recollect who all were part of 12:34PM	8 please turn to page 12. 12:38PM
9 the OSPF team. There were probably a small set of 12:34PM	9 A Yeah, I'm there. 12:38PM
10 people. 12:34PM	10 Q In the bottom third of the page, do you see the 12:38PM
11 Are you looking for specific names? 12:34PM	11 command expression "ip ospf bfd"? 12:38PM
12 Q Yes. 12:34PM	12 A Yes. 12:38PM
13 A One person I could think of is Derek Yeung. 12:34PM	13 Q Okay. And then in the next column with the 12:38PM
14 Q Can you spell that, please. 12:34PM	14 heading "Author/Originator Information," it says "Cisco" 12:38PM
15 A Actually, he calls himself Derek, but the 12:34PM	15 and your name; correct? 12:38PM
16 okay. D-r-e-k [sic] and Yeung is Y-e-u-n-g. 12:34PM	16 A Yes. 12:38PM
17 Q Okay. 12:34PM	17 Q Did you come up with the expression "ip ospf 12:38PM
18 A He was he was one of the senior guys in the 12:34PM	18 bfd"? 12:38PM
19 team. 12:34PM	19 A Yeah, so BFD I was the lead implementer of it 12:38PM
20 Who were other people around that time. There 12:34PM	20 and very likely I proposed the the command. 12:39PM
21 was there was somebody called Padma, P-a-d-m-a. Her 12:34Pl	
22 last name was Esnault, E-s-n-a-u-l-t. And these two 12:34PM	22 command. 12:39PM
23 names I can remember very clearly. There may be more 12:35PM	
24 people who were part of the OSPF team at that time. 12:35PM	24 A I don't remember anybody else worked on it, so 12:39PM
25 Q Is that the best recollection you have, as you 12:35PM Page 94	25 I I proposed the command. Yeah, I think I proposed 12:39PM Page 96
1 sit here today, of who else was on the team that came up 12:35PM	1 the command I don't think there was anybody else on 12:39PM
2 with the command "ip ospf authentication"? 12:35PM	2 this project 12:39PM
3 A Yes 12:35PM	3 Q Okay And I appreciate your reasons for saying 12:39PM
4 Q Okay Who else was on the team that came up with 12:35PM	4 that, but my question is: Do you have any recollection 12:39PM
5 the command "bfd all-interfaces"? 12:35PM	5 of proposing this command "ip ospf bfd"? 12:39PM
6 A That was on page 3? 12:35PM	6 A Yes 12:39PM
7 Q Correct 12:35PM	7 MR NEUKOM: Objection; asked and answered 12:39PM
8 MR NEUKOM: Page 3 of Exhibit 54 12:35PM	8 BY MR SILBERT: 12:39PM
9 THE WITNESS: This is actually much later than 12:36PM	9 Q What's your recollection? 12:39PM
10 that, so this I'm just going with the date, which is 12:36PM	10 A 1 remember the document which described this, and 12:39PM
11 also listed here, 2004 to 2005 We had different 12:36PM	11 I think I was I was the author of the document It's 12:39PM
12 engineers around that time on those PF [phonetic] team 12:36PM	12 a small amount of work And generally what happens is 12:39PM
13 Couple names I can recollect One was Liem, L-i-e-ın, 12:36PM	13 if there is large project, you have a larger group of 12:39PM
14 and Nguyen, N-g-y-u-e-n, 1 think Last name may have 12:36PM	14 people who work on the project For smaller ones, you 12:40PM
15 spelled incorrectly Another engineer was Peter, 12:36PM	15 are the sole implementer, so you pretty much do most of 12:40 PM
16 P-e-t-e-r, Psenak, P-s-e-n-a-k There are probably more 12:36PM	16 the work, all the way from designing the command and the 12:40PM
17 names, but those are a couple of names 12:37PM	17 implementation This was another smaller features 12:40PM
18 'BY MR SILBERT: 12:37PM	18 Q Okay The term "ip" in the command "ip ospf bfd" 12:40PM
19 Q Okay Are you able to tell me any other names of 12:37PM	19 refers to the Internet protocol standard that's 12:40PM
20 people who are on the team who named the command 12:37PM	20 specified by the IETF; correct? 12:40PM
21 "bfd all-interfaces"? 12:37PM	21 A "ip" in this command refers to Internet Protocol 12:40PM
	· · · · · · · · · · · · · · · · · · ·
22 A Yeah, 1 don't recall any more specific names 1 12:37PM	22 Version 4, which is documented in RFC 791, and there 12:40PM
23 mean, there are people around that time, but I want to 12:37PM	23 might be further revisions of it, if not 12:40PM
23 mean, there are people around that time, but I want to 12:37PM 24 make sure that they were in Cisco at that time 12:37PM	23 might be further revisions of it, if not 12:40PM 24 Q Okay And the tenn "ospf" in the command 12:40PM
23 mean, there are people around that time, but I want to 12:37PM	23 might be further revisions of it, if not 12:40PM

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 111 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

	1
1 specified by the IETF; correct? 12:40PM	1 the OSPF standard, a newer version than what you have 12:45PM
2 A Yes 12:40PM	2 shown me, and it talks about if you are compliant to 12:45PM
3 MR NEUKOM: Objection; misstates prior 12:41PM	3 that version, that implementation could use BFD 12:45PM
4 testimony, calls for opinion 12:41PM	4 services 12:45PM
5 THE WITNESS: The OSPF acronym we have used is 12:41PM	5 BY MR SILBERT: 12:45PM
6 for Open Shortest Path First protocol, which is also 12:41PM	6 Q Okay What resources did you use when naming the 12:45PM
7 described and captured in RFC 12:41PM	7 "ip ospf bfd" command? 12:46PM
8 BY MR SILBERT: 12:41PM	8 MR NEUKOM: Objection; vague 12:46PM
9 Q Okay And the the term "bfd" in the command 12:41PM	9 THE WITNESS: By "resources" you are implying 12:46PM
10 "ip ospf bfd" refers to the BFD standard that's 12:41PM	10 what type of material documents, those kind of things? 12:46PM
11 specified by the IETF; correct? 12:41PM	11 MR SILBERT: Correct 12:46PM
12 A BFD acronym stands for Bidirectional Forwarding 12:41PM	THE WITNESS: I had looked at the specification, 12:46PM
13 Detection, which is which is, yes, also captured in 12:41PM	13 of course It I don't know if it was this version or 12:46PM
14 IETF RFC 12:41PM	14 if it was an earlier version of of the BFD protocol 12:46PM
15 Q And the BFD standard itself describes using BFD 12:41PM	15 specification, and beyond that, it may have been some 12:46PM
16 with OSPF; is that correct? 12:41PM	16 conversation about who wants it, but I don't have any 12:46PM
17 MR NEUKOM: Objection; document calls for its 12:41PM	17 specific recollection was there a formal Product 12:46PM
18 pardon me Document speaks for itself, calls for 12:42PM	18 Requirement Document also written with it 12:46PM
19 opinion testimony 12:42PM	19 BY MR SILBERT: 12:46PM
20 THE WITNESS: BFD spec again, my recollection 12:42PM	20 Q What do you mean when you say "some conversation 12:47PM
21 is BFD spec was written in a more generic sense. It may 12:42PM	21 about who wants it"? 12:47PM
22 or may not have explicitly called out how and which 12:42PM	22 A Yes As I was saying earlier, most of the things 12:47PM
23 protocols you can you can make use of it, but, again, 12:42PM	23 we implement are of two categories, typically 12:47PM
24 if you have some more text, I can look into it 12:42PM	24 One is customer-driven, which is, you are talking 12:47PM
25 // 12:42PM	25 to certain customers They are telling you they want 12:47PM
Page 98	Page 100
1 (Euklish 57 year regular) for 12/12DA	1 this to a classical and Thomas to be wild that 12.47DM
1 (Exhibit 57 was marked for 12:42PM	1 this type of technology Then you try to build that 12:47PM
2 identification by the Court Reporter) 12:43PM	2 technology 12:47PM
3 BY MR SILBERT: 12:43PM	3 Or they are innovation-driven, which is we want 12:47PM
4 Q Mr Roy, would you please look at Exhibit 57 and 12:43PM	4 to showcase some new things which we have built, and 12:47PM
5 tell me if you recognize it 12:43PM	5 they are more outwards 12:47PM
6 A Yes, I do 12:43PM	6 In the latter, you will not have a customer 12:47PM
7 Q What is it? 12:44PM	7 requirement document or Product Requirement Document 12:47PM
8 A This is an RFC which describes the base protocol 12:44PM	8 because there is nobody has requested at this point 12:47PM
9 for bidirectional detection 12:44PM	9 versus, in the former case, you will have some level of 12:47PM
10 Q Would you look, please, at the page that ends 12:44PM	10 conversation, communication, or perhaps a more formal 12:47PM
11 with the Bates No 760 12:44PM	11 document which describes what a customer really intends 12:47PM
12 A Yes, I'm there 12:44PM	12 to do 12:47PM
13 Q Do you see Section 3 1? Towards the bottom of 12:44PM	13 Q In the case of customer-driven developments, do 12:47PM
14 that section in that single paragraph, it says, "For 12:44PM	14 customers ever suggest CL1 commands? 12:48PM
15 example, an OSPF implementation may request a BFD 12:44PM	15 MR NEUKOM: Objection; vague, compound, phrased 12:48PM
16 session to be established to a neighbor discovered using 12:44PM	16 in the subjunctive 12:48PM
17 the OSPF Hello protocol " 12:44PM	17 MR SILBERT: Now you got me 12:48PM
18 Do you see that? 12:44PM	18 THE WITNESS: Is that is that in reference to 12:48PM
19 A Yes, I see that 12:44PM	19 this command in particular, or is it 12:48PM
20 Q And that sentence is describing using BFD with 12:44PM	20 MR SILBERT: No I was asking you more 12:48PM
21 OSPF; correct? 12:45PM	21 generally 12:48PM
22 MR NEUKOM: Objection; document speaks for 12:45PM	22 THE WITNESS: Okay You are asking for my 12:48PM
23 itself, and to the extent it doesn't, calls for opinion 12:45PM	23 opinion? 12:48PM
24 testimony 12:45PM	24 MR SILBERT: I'm asking for your personal 12:48PM
25 THE WITNESS: Yeah, it so this does reference 12:45PM	25 knowledge 12:48PM
Page 99	Page 101

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 112 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

2 THE WITNESS: Clay I mean, from -1 mean, this 12-18PM 2 is probably a more breader comment of fort recall 12-24PM 3 implement They typically gold shout the entoniar wints 12-34PM 4 implement They typically gold shout the entoniar wints 12-34PM 5 implement from the CLI perspective. That will be mer. 12-18PM 6 implement from the CLI perspective. That will be mer. 12-18PM 7 if somethody evan ventures into that 12-34PM 8 BYMR SILBERT: 12-34PM 9 Q As you are used continued. 12-34PM 11 MR NEUKOM: Same objectious, vague, compound 12-49PM 12 THE WITNESS: Pan of not more of anything in 12-49PM 13 Particular 12-24PM 14 DYMR SILBERT: 12-24PM 15 Q Are you arene of anything in general? 12-49PM 16 Q Are you arene of anything in general? 12-49PM 17 Dyleady happens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not read a were a probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probable goes not concerned will be probable goes not concerned will be probable goes not concerned to the probable goes not concerned to the probable goes not concerned will be probable goes not concerned to the probable goes not concerned to the probable goes not concerned to the probable g		
3	1 THE WITNESS: Okay I mean, from I mean, this 12:48PM	1 some other command? 12:51PM
4 implement. They typically talk about the outteners wants 12-48PM 3 to get this functionality, in how Circe should 12-48PM 3 to get this functionality. The CI oppose is not to 12-48PM 3 if somebody even ventures into that 12-48PM 3 if somebody even ventures into that 12-48PM 3 of A see you aware of Cisco customers providing any 12-49PM 10 feedback on CL1 commands? 12-49PM 10 feedback on CL1 commands? 12-49PM 11 MR NEIGHOS. Sime objections, vaguinc, compound 12-49PM 12 TITLE WITNESS: Pin not aware of anything in 12-49PM 13 panticular 12-49PM 14 BY MR SELBERT: 12-49PM 15 Q Arey was ware of onything in general? 12-49PM 16 A We do something called 'cachy feel feel,' in 12-49PM 17 typically bappens if a new product goes out or a new 12-49PM 18 software release goes out Customers will typically by 12-49PM 19 your functionality and gave yes Nethods in news of low 12-49PM 20 they want to change the functionality, if it is not 12-49PM 21 to needing their exact functional needs 5 ow get 12-49PM 22 feedbacks on — on that type of filming, that," staked 12-49PM 23 you took in this your thing is doing alighily 12-49PM 24 you took in the your thing is doing alighily 12-49PM 25 Command line kind of thing, outstones don't care 12-49PM 26 Do you see the command "IPv6 one former" 11st 12-59PM 27 A Yes and 12-50PM 28 Q And you are indicated as the author, aliah, 12-50PM 39 Q O kay Lev's ge back to Eshibit 54, and coald you 12-59PM 40 A Yes So aliay be command "IPv6 one former" 11st 12-50PM 50 Do you see the command "IPv6 one former" 11st 12-50PM 51 Q Right 12-50PM 52 Q Do you come up with the experience in Pv6 one former" 11st 12-50PM 53 Q O you you come up with the experience in Pv6 one former 12-49PM 54 Q O you you come up with the experience in Pv6 one former 12-49PM 55 Q And you are indicated as the author, aliah, 12-50PM 56 Do you see the command "IPv6 one former" 11st 12-50PM 57 Q Pv6 you you come up with the experience in Pv6 one of mare? 11st 12-50PM 58 Q And you are indicated as the author, aliah, 12-50PM 59 Q Right 10 Q	2 is probably a more broader comment I don't recall 12:48PM	2 MR NEUKOM: Objection; vague and compound 12:51PM
5 to spet this functionality, not how Cisco should 12-48PM 6 inspired and secded with some of the same councepts we 12-52PM 7 if someshody now esturest into the 12-48PM 8 BY MR SILBERT: 12-48PM 9 Q Are you ware of Cisico conteners providing any 12-49PM 10 feedback on CLL commands? 12-49PM 11 MR NEUKOM: Same objections, vague, compound 12-49PM 12 THE WINNESS. For not sware of amplitung in 12-49PM 13 particular 12-49PM 14 BY MR SILBERT: 12-49PM 15 Q Arey are used on sware of amplitung in 12-49PM 16 A We do something called "early field trial," which 12-49PM 17 typically happens if a new product goes on or a new 12-49PM 18 software release goes of Uctioners will hybridly by 17-249PM 19 your fluctionality and give you feedback in terms of how 12-49PM 21 incesting their coact functionality, 6 if it not 12-49PM 22 feedback on on that type of fining, that, "I saked 12-49PM 23 was to do this, but your cling is doing eligibly 12-49PM 24 different. Can you change the behavior of that?" 12-49PM 25 Command line kind of thing, customers don't care. 12-49PM 26 December 12-19PM 27 by our treat is the following of the meritanesh in that 12-59PM 27 pour intention of the meritanesh in the 12-59PM 28 Q And you me indicated as the methor, shall, 12-59PM 29 or fining that of thing, customers of not care. 12-49PM 20 pour intention of the method and in the 12-59PM 21 popular ward in the finite of thing, customers of not care. 12-49PM 29 popular ward in the finite of thing, customers of the care. 12-49PM 20 popular ward in the finite of thing, customers of the care. 12-49PM 21 popular ward in the finite of thing, customers of the care. 12-49PM 22 feedback on on that type of fining, that, "I saked 12-49PM 23 Q Clay Left ge back to Eshibit 54, and could you 12-59PM 24 please trent to page 16 25-59PM 25 popular ward in the finite of thing, customers of the care. 12-59PM 26 Q Did you ceen up with the expression "I'Ps 6 opt awar" 11 12-59PM 27 Q Did you ceen up with the expression if TPs 6 opt 12-59PM 28 Q And you me indicated as the	3 seeing any specifics of what command somebody should 12:48PM	3 THE WITNESS: I don't recall if we if we ever 12:51PM
6 implement from the CLI perspective. That will be rare. 12-18PM. 7 if somethody even ventures into that 12-18PM. 9 Q Are you waste of Cisco automers providing any. 12-49PM. 10 Rorback on CLI command? 12-49PM. 11 MR NEMEXON. Same objections, vague, compound. 12-49PM. 12 THE WITNESS. Far not aware of anything in 12-49PM. 13 PAYARS. SLIEBERT: 12-32PM. 14 BYMR SLIEBERT: 12-32PM. 15 Q Areyou aware of Clico distance and anything in 12-49PM. 16 A We do something called "early field trial," which is 12-49PM. 17 typically happens if a new product goes out or a new 12-49PM. 18 software refease goes out. Customers will bypically by 12-49PM. 19 your functionally and give you forcells in forms of flows. 12-49PM. 20 diazy want to change the functionally, if it is not. 12-49PM. 21 unesting heir exact functional steeds 5 we get 12-49PM. 22 varied to change the functionally, if it is not. 12-49PM. 23 you to do this, but your thing is doing alightly 12-49PM. 24 different Can you change the belowing of that? 12-49PM. 25 you to do this, but your thing is doing alightly 12-49PM. 26 does 12-50PM. 27 (Command line kind of thing, customers don't care. 12-49PM. 28 pool to do this, but your thing is doing alightly 12-49PM. 29 do you to make the belowing of that? 12-49PM. 20 does 12-50PM. 30 Q Okay Let's go back to Eshibit 54, and could you. 12-50PM. 41 flex does 12-50PM. 42 does 12-50PM. 43 Q Do by us cent up to peace to 12-50PM. 44 please turn to page 16 12-50PM. 55 Do you see the command in the first of the command, it is that 12-50PM. 56 Q Do by us cent up with the expression "19-6 out was the peace of the Cline does what Case of 12-50PM. 57 Q Non, personally, did that, or you were pure of the 12-50PM. 58 Q Andyou are indicated as the author, tash. 12-50PM. 59 Q Okay Let's go back to Eshibit 54, and could you 12-50PM. 50 Do you see the command in the first of the command, it is that 12-50PM. 59 Q Do you see the command in the first of the command in the first of the command in the first of the command in the first of the command in	4 implement They typically talk about the customer wants 12:48PM	4 had multiple iterations on this particular command In 12:51PM
6 implement from the CLI perspective. That will be rare. 12-18PM. 7 if somethody even ventures into that 12-18PM. 9 Q Are you waste of Cisco automers providing any. 12-49PM. 10 Rorback on CLI command? 12-49PM. 11 MR NEMEXON. Same objections, vague, compound. 12-49PM. 12 THE WITNESS. Far not aware of anything in 12-49PM. 13 PAYARS. SLIEBERT: 12-32PM. 14 BYMR SLIEBERT: 12-32PM. 15 Q Areyou aware of Clico distance and anything in 12-49PM. 16 A We do something called "early field trial," which is 12-49PM. 17 typically happens if a new product goes out or a new 12-49PM. 18 software refease goes out. Customers will bypically by 12-49PM. 19 your functionally and give you forcells in forms of flows. 12-49PM. 20 diazy want to change the functionally, if it is not. 12-49PM. 21 unesting heir exact functional steeds 5 we get 12-49PM. 22 varied to change the functionally, if it is not. 12-49PM. 23 you to do this, but your thing is doing alightly 12-49PM. 24 different Can you change the belowing of that? 12-49PM. 25 you to do this, but your thing is doing alightly 12-49PM. 26 does 12-50PM. 27 (Command line kind of thing, customers don't care. 12-49PM. 28 pool to do this, but your thing is doing alightly 12-49PM. 29 do you to make the belowing of that? 12-49PM. 20 does 12-50PM. 30 Q Okay Let's go back to Eshibit 54, and could you. 12-50PM. 41 flex does 12-50PM. 42 does 12-50PM. 43 Q Do by us cent up to peace to 12-50PM. 44 please turn to page 16 12-50PM. 55 Do you see the command in the first of the command, it is that 12-50PM. 56 Q Do by us cent up with the expression "19-6 out was the peace of the Cline does what Case of 12-50PM. 57 Q Non, personally, did that, or you were pure of the 12-50PM. 58 Q Andyou are indicated as the author, tash. 12-50PM. 59 Q Okay Let's go back to Eshibit 54, and could you 12-50PM. 50 Do you see the command in the first of the command, it is that 12-50PM. 59 Q Do you see the command in the first of the command in the first of the command in the first of the command in the first of the command in	5 to get this functionality, not how Cisco should 12:48PM	5 the slightly longer context is OSPF Version 3 was 12:52PM
7 ir Somebody even ventures into that 12:48PM 8 BY NR SUBERT: 12:48PM 10 Rechouch on CLI command? 12:49PM 10 Rechouch on CLI command? 12:49PM 11 Rechouch on CLI command? 12:49PM 12:49PM 12:49PM 12:49PM 12:49PM 13 Porticular 12:49PM 14 A So Brace of anything in general? 12:49PM 15 Q Areysu aware of anything in general? 12:49PM 15 Q Areysu aware of anything in general? 12:49PM 16 A We do something called "early field rein," which 12:49PM 17 Vapically happens if a new product user of or a rechondry of the product		
8 Name Situally more to align tow OSPF Version 2 drings are 12:52PM 9 O Are you aware of Cisco customers providing any 12:49PM 11 MR NEUKOM: Same objectious; vague, compound 12:49PM 12 TIB WTINSS: This not aware of enything in 12:49PM 13 Particular 12:49PM 14 BY NR SILBERT: 12:32PM 15 O Are you aware of mything in general? 12:49PM 15 O Are you aware of mything in general? 12:49PM 16 A Wedo something called "error field trial," which 12:49PM 17 O your functionality and give you feedback in terms of from 12:49PM 18 software release goes out Customers will typically try 12:49PM 20 they ware to change the functionality, if it is not 12:49PM 21 feeffbacks on - on that type of fring; that," asked 12:49PM 22 treeting their exact functional needs. So we get 12:49PM 23 you to do dais, but your fing is doing alighily 12:49PM 24 different Can you change the behavior of that?" 24 your for change the functionality, if it is not 12:49PM 25 you for change the functional reeds. So we get 12:49PM 26 dess. Command line kind of thing, customers don't care 12:49PM 27 your functionality and give you for function of that?" 28 you to do dais, but your fing is doing alighily 12:49PM 29 you for change the behavior of that?" 29 you for change the functional reeds. So we get 12:49PM 21 feeffbacks on - on that type of fring; that," asked 12:49PM 22 second contained the behavior of that?" 23 you to do dais, but your fing is doing alighily 12:49PM 24 different Can you change the behavior of that?" 25 your functional type of fing; that, "asked 12:49PM 26 does 12:49PM 27 Thay don't want to get into Cisco does what Cisco 12:49PM 28 Q And you are indicated as the auditor, than, 12:50PM 30 Q Okay Let's go back to Exhibit 49, and could you 12:50PM 4 please caus to page 16 4 Please caus to page 16 5 Q And you are indicated as the auditor, than, 12:50PM 5 Q And you are indicated as the auditor, than, 12:50PM 6 Q And you are indicated as the auditor, than, 12:50PM 7 Q Sold you come up with the expression "The Goopf 12:50PM 8 Q And you are indicated	, ,	
9 Q Ave you aware of Cisco customers providing any 12-40PM 10 feedback on CLI commanded 12-50PM 12-50PM 10 feedback on CLI commanded 12-50PM 12-50PM 10 BY MR SILBERT: 12-30PM 12 Q Feedback on CLI commanded 12-50PM 12-50PM 12-50PM 12-50PM 12-50PM 12-50PM 12-50PM 12-50PM 12-50PM 13 Version 3? 12-50PM 14 A SO IP-O OSPF is - is what is referred to an OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15 Version 3. So, again, the longer steep where is OSPF 12-50PM 15		
10 Feedback on CLI commands? 12:49PM 13 MR NEUKON: Same objectious; vague, compound 12:49PM 13 particular 12:49PM 13 particular 12:49PM 13 particular 12:49PM 14 A So IPPO OSPF 12:32PM 15 Version 3? 12:52PM 15 Version 3? 12:52PM 15 Version 3? 12:52PM 15 Version 3? 12:52PM 16 A We do something addled "early field trial," which 12:49PM 17 by jointly happens if a new product pase out or a new 12:49PM 18 offwer effects goes out Costoner will objectly by 12:49PM 19 your functionality and give you feedback in terms of how 12:49PM 19 your functionality and give you feedback in terms of how 12:49PM 19 worn to change the functionality, if it is not 12:49PM 19 worn to change the functionality, if it is not 12:49PM 19 worn to change the functionality in the state of thing, customers don't care 12:49PM 22 you to do his. but your thing is doing slightly 12:49PM 23 you to do his. but your thing is doing slightly 12:49PM 23 you to do his. but your thing is doing slightly 12:49PM 23 you to do his. but your thing is doing slightly 12:49PM 23 you to do his. but your thing is doing slightly 12:49PM 23 you to do his. but your thing is doing slightly 12:49PM 23 you to do his. but your thing is doing slightly 12:49PM 23 you to do his. but your thing is doing slightly 12:49PM 24 liter when IP-6 week was happening to 12:53PM 24 liter when IP-6 week was happening to 12:53PM 25 Command line kind of thing, customers don't care 12:49PM 26 you have to be contained as the author, slash, 12:59PM 26 you you have the command. First at 12:59PM 27 you personally, did hat, or you were part of a 12:59PM 26 you personally, did hat, or you were part of a 12:59PM 26 you personally, did hat, or you were part of a 12:59PM 26 you personally, did hat, or you were part of a 12:59PM 27 you personally, did hat, or you were part of a 12:51PM 28 you worn to have those when there, in the initial 12:51PM 28 you go you know whether, in the initial 12:51PM 28 you go y		
11		
12		
13 Particular 12-99PM 13 Version 3? 12-52PM 14 A SO IPV6 OSPF is—is what is referred to as OSPF 12-52PM 15 Version 3. So, again, the longer story there is OSPF 12-52PM 15 Version 3. So, again, the longer story there is OSPF 12-52PM 15 Version 3. So, again, the longer story there is OSPF 12-52PM 16 had a first version—1-should say second version, OSPF 12-52PM 17 specand—Version along the property of the property of the had a first version—1-should say second version, OSPF 12-52PM 17 specand—Version along the property of the had a first version—1-should say second version, OSPF 12-52PM 19 your functionality and give you feedback in terms of how 12-49PM 19 supported the version which most 12-52PM 19 supported the version which most 12-52PM 19 supported the version which most 12-52PM 19 supported the version which most 12-52PM 19 supported the Version of became popular, OSPF had to 12-53PM		
14 B YMR SILBERT: 12-9PM 15 Q Are you aware of anything in general? 12-9PM 15 Q Are you aware of anything in general? 12-9PM 15 Version 3 So. again, the longer story there is OSPF 12-52PM 17 typically happens if a new product goes cott or new 12-9PM 18 software release goes out Customers will typically try 12-9PM 18 software release goes out Customers will typically try 12-49PM 19 your functionality and give you feedback in terms, of how 12-49PM 19 your functionality and give you feedback in terms, of how 12-49PM 19 your functionality and give you feedback in terms, of how 12-49PM 19 your functionality and give you feedback in terms, of how 12-49PM 19 your functionality and give you feedback in terms, of how 12-49PM 19 your functionality and give you feedback in terms, of how 12-49PM 19 your functionality and give you feedback in terms, of how 12-49PM 21 meeting their exact functional needs So we get 12-49PM 22 separate functional needs So we get 12-49PM 23 so for the properties of the pro	, ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
15 Q Are you aware of anything in general? 12-49PM 16 A We do something called "early field total," which 12-49PM 17 typically happens if a new product goes out or a new 12-49PM 18 software release goes out Customars will bysically try 12-49PM 19 your functionality and give you Redback in tenns of how 12-49PM 20 they want to change the functionality, if it is not 12-49PM 20 they want to change the functionality, if it is not 12-49PM 21 traceful their exact functional needs. So we get 12-49PM 22 feedbacks on — on that type of thing; that, "I asked 12-49PM 23 you to do this, but your thing is doing slightly 12-49PM 24 different Can you change the behavior of that?" 12-49PM 25 Command line kind of thing, customers don't care 12-49PM 26 does 12-50PM 27 do they want to get into Cisco does what Cisco 12-49PM 28 does 12-50PM 29 does 12-50PM 30 Q Okay Let's go back to Exhibit 45, and could you 12-50PM 4 please trun to page 16 5 Do you see the command "IPv6 oapf area"? 1s 12-50PM 6 Q And you are indicated as the author, slash, 12-50PM 7 A Yes 12-50PM 8 Q And you are indicated as the author, slash, 12-50PM 10 correct? 12-50PM 11 A Yes 12-50PM 12-50PM 13 area? 12-50PM 14 A Yes 12-50PM 15 Q You, personally, did that, or you were part of a 12-50PM 16 team that did that? 12-50PM 17 A So that's what I was thinking It was —it was 12-51PM 18 as est of people, but I was the lead developer, so I 12-51PM 19 wrote the initial functional spec, initial design and 12-51PM 20 Q Glosy And do you know whether, in the initial 12-51PM 21 Q Okay And do you know whether, in the initial 12-51PM 22 Q Okay And do you know whether, in the initial 12-51PM 23 Q Okay And do you know whether, in the initial 12-51PM 24 Gloser Carmand design and user interface, the 12-51PM 25 Q Okay And do you know whether, in the initial 12-51PM 26 Q Okay And do you know whether, in the initial 12-51PM 27 A So that's what I was pole oad in that you proposed was "Pro-Goopf dear" versus 12-51PM 28 Q Okay And do you know whether, in the initial 12-51PM 29 Q Okay And do		
16 A We do something called "early field trial," which 12-49PM 17 spically happens if a new product goes out or a new 12-49PM 18 software release goes out Customers will typically fur your functionality, if it is not 12-49PM 19 your functionality and give you feedback in tenns of how 12-49PM 20 they want to change the functionality, if it is not 12-49PM 21 treeting their exact functional needs. So we get 12-49PM 22 to depth and the common of the functionality and provide the functionality of it is not 12-49PM 23 you to do this, but your thing is doing slightly 12-49PM 24 different Can you change the behavior of that?" 12-49PM 25 Command line kind of thing, customers don't care 12-49PM 26 does 12-50PM 27 They don't want to get into Cisco does what Cisco 12-49PM 28 does 12-50PM 29 does 12-50PM 3 Q Okay Let's go back to Exhibit 54, and could you 12-50PM 4 please turn to page 16 12-50PM 5 Do you see the command "IPv6 orgh rene"? It's 12-50PM 6 third from the bottom 12-50PM 8 Q And you are indicated as the author, shash, 12-50PM 10 corner? 12-50PM 11 A Yes 12-50PM 12-50PM 13 area? 12-50PM 14 A Yes 12-50PM 15 Q Did you come up with the expression "IPv6 orgh rene" in 12-50PM 16 team into did that? 12-50PM 17 A Yes 12-50PM 18 A Yes 12-50PM 19 Opiginator with respect to that command, it that 12-50PM 19 Opiginator with respect to that command, it that 12-50PM 10 corner? 12-50PM 11 A Yes 12-50PM 12-50PM 12-50PM 13 area? 12-50PM 14 A Yes 12-50PM 15 Q Non-personally, did that, or you were part of a 12-50PM 16 team that did that? 12-50PM 17 A So that's what I was thinking. It was -it was 12-51PM 18 a set of people, but I was the lead developer, so I 12-51PM 29 Opiginator with respect to the critical functional spec, initial design and 12-51PM 20 (Schibit) 58 was marked for 12-54PM 21 invelocation appec, initial design and 12-51PM 22 (Okay And do you know whether, in the initial 12-51PM 23 (Okay And do you know weether, in the initial 12-51PM 24 (functional spec and design and unser interface, the 12-51PM 25 (command that you		
17 typically happens if a new product goes out or a new 12:49PM 18 software release goes out Customers will typically for 12:49PM 18 software release goes out Customers will typically for 12:49PM 20 they want to change the functionality, if it is not 12:49PM 21 meeting their exact functional needs So we get 12:49PM 22 feedbacks on - on that type of thing; that, "lasked 12:49PM 23 feedbacks on - on that type of thing; that, "lasked 12:49PM 24 different Can you change the belaxifor of that" 12:49PM 25 Command line kind of thing, customers don't care 12:49PM 26 don't want to get into Cisco does what Cisco 12:49PM 27 don't want to get into Cisco does what Cisco 12:49PM 28 don't want to get into Cisco does what Cisco 12:49PM 3 Q Okay Lef's go back to Exhibit 54, and could you 12:50PM 4 please trust to page 16 12:50PM 5 Do you see the command "IPv6 ospf rare"?" If s 12:50PM 6 third from the bottom 12:50PM 7 A Yes 12:50PM 8 Q And you are indicated as the author, slash, 12:50PM 10 cornerd* 12:50PM 11 A Yes 12:50PM 12 Q Did you come up with the expression "IPv6 copf" 12:50PM 13 A Yes So - yes 1 mean, the answer is yes 12:50PM 14 A Yes So - yes 1 mean, the answer is yes 12:50PM 15 Q You, personally, did that, or you were part of a 12:50PM 16 team that did that? 17 A So that's what It was the lead developer, so 1 12:51PM 18 a set of people, but I was the lead developer, so 1 12:51PM 19 wrote the initial functional spec, initial design and 12:51PM 20 Q Glay And do you know whether, in the initial 12:51PM 21 implementers who were part of the 12:51PM 22 project, so they helped code it, basically 12:51PM 23 Q Glay And do you know whether, in the initial 12:51PM 24 functionally and give you feed and wint or an are "12:51PM 25 command that but you proposed was "IPv6 cogf rear" versus 12:51PM 25 command that but you proposed was "IPv6 cogf rear" versus 12:51PM 26 (Gary Care Project, so they helped code it, basically 12:51PM 27 (Gary Care Project, so they helped code it, basically 12:51PM 28 (Gary Care Project, so they helped cod		
18 software release goes out Customers will typically try 12:49PM 19 your functionality and give you feedback in tenns of how 12:49PM 20 they want to change the functionality, if it is not 12:49PM 20 they want to change the functionality, if it is not 12:49PM 21 treneting their exact functional needs. So we get 12:49PM 22 feedbacks on on that type of thing; that, "lasked 12:49PM 23 you to do this, but your thing is doing slightly 12:49PM 24 different. Can you change the behavior of that?" 12:49PM 25 Command line kind of thing, customers don't care 12:49PM 26 does 12:39PM 27 They don't want to get into Cisco does what Cisco 12:49PM 28 does 12:30PM 29 does 12:30PM 20 Doyou see the command "IPv6 ospf area"? Its 12:30PM 30 Q Okay. Let's go back to Exhibit 54, and could you 12:50PM 40 third from the bottom 12:30PM 41 third from the bottom 12:30PM 42 Q So before you manded the IPv6 OSPF area command, it is that 12:50PM 43 Q And you are indicated as the author, slash, 12:50PM 44 Q So before you mand the IPv6 OSPF version 2 12:53PM 45 Cornect? 12:53PM 46 third from the bottom 12:50PM 47 A Yes 12:50PM 48 Q And you corne up with the expression "IPv6 ospf area"? Its 12:50PM 49 originator with respect to that command; its that 12:50PM 40 cornect? 12:53PM 41 A Yes So -yes 1 mean, the answer is yes 12:50PM 41 A Yes So -yes 1 mean, the answer is yes 12:50PM 41 A Yes So -yes 1 mean, the answer is yes 12:50PM 41 A Yes So -yes 1 mean, the answer is yes 12:50PM 41 A Yes So -yes 1 mean, the answer is yes 12:50PM 42 Q Did you corne up with the expression "IPv6 ospf area" 12:51PM 43 a set of people, but I was the lead developer, so 1 12:51PM 44 A Yes So -yes 1 mean, the answer is yes 12:50PM 45 Q Okay And so you know whether, in the initial 12:51PM 46 A A yes So -yes 1 mean, the answer is yes 12:50PM 47 A So that's what I was thinking It was -it was 12:51PM 48 a set of people, but I was the lead developer, so 1 12:51PM 49 wrote the initial functional spec, initial design and 12:51PM 40 Okay And do you know whether, in the initial		
19 your functionality and give you feedback in terms of how 12:49PM 20 they want to change the functionality, if it is not 12:49PM 21 incerting their exact functional needs. So we get 12:49PM 22 incerting their exact functional needs. So we get 12:49PM 22 increase the functional needs. So we get 12:49PM 23 you to do this, but your thing is doing slightly 12:49PM 23 so if you look at RPC OSPF Version 3, it came 12:53PM 24 different. Can you change the behavior of that? 12:49PM 25 Command line kind of thing, customers don't care 12:49PM 26 you do this, but your thing is doing slightly 12:49PM 27 you for him is doing slightly 12:49PM 28 you to do this, but your thing is doing slightly 12:49PM 29 you to do this, but your thing is doing slightly 12:49PM 29 you to do this, but your thing is doing slightly 12:49PM 29 you to do this, but your thing is doing slightly 12:49PM 29 you to do this, but your thing is doing slightly 12:49PM 29 you to do this, but your thing is doing slightly 12:49PM 29 you to do this, but your thing is doing slightly 12:49PM 29 you to do this, but your thing is doing slightly 12:49PM 29 you to do this, but your thing is doing slightly 12:49PM 29 you to do this, but your thing is doing slightly 12:49PM 29 you to do this, but your thing is doing slightly 12:49PM 29 you to do this, but your thing is doing slightly 12:49PM 29 you to do this, but your thing is doing slightly 12:49PM 29 you to do this, but you thing is doing slightly 12:43PM 29 you to do this, but you thing is doing slightly 12:43PM 29 you to do this, but you thing is doing slightly 12:43PM 29 you to do this, but you thing is doing slightly 12:43PM 29 you to do this, but you thing is doing slightly 12:43PM 29 you to do this, but you thing is doing slightly 12:43PM 29 you to do this, but you thing is doing slightly 12:43PM 29 you to do this, but you thing is doing slightly 12:43PM 29 you to do this, but you thing is doing slightly 12:43PM 29 you thing is doing slightly 12:43PM 29 you thing is doing slightly 12:43PM 29 you thing is do	17 typically happens if a new product goes out or a new 12:49PM	
20 they want to change the functional ineeds So we get 12:49PPM 22 feedbacks on - on that type of thing; that, "I asked 12:49PPM 22 feedbacks on - on that type of thing; that, "I asked 12:49PPM 23 you to do this, but your thing is doing slightly 12:49PPM 24 different Can you change the behavior of that?" 12:49PPM 25 Command line kind of thing, customers don't care 12:49PPM 26 different Can you change the behavior of that?" 12:49PPM 27 Dage 100 1 They don't want to get into Cisco does what Cisco 12:49PPM 28 don't want to get into Cisco does what Cisco 12:49PPM 29 don't want to get into Cisco does what Cisco 12:49PPM 29 don't want to get into Cisco does what Cisco 12:49PPM 29 don't want to page 16 12:50PPM 29 don't want to page 16 12:50PPM 29 don't find from the bottom 12:50PPM 29 don't find from the bottom 12:50PPM 29 don't find from the bottom 12:50PPM 29 originator with respect to that command; is that 12:50PPM 29 originator with respect to that command; is that 12:50PPM 20 Q Didy ou one up with the expression "I'PNO sopf 12:50PPM 20 Q Didy ou come up with the expression "I'PNO sopf 12:50PPM 20 Q Didy ou come up with the expression "I'PNO sopf 12:50PPM 20 Q Didy ou come up with the expression "I'PNO sopf 12:50PPM 20 Q Right 12:53PPM 21:53PPM 21:53PPM 22:53PPM 23 Q Okay 24:53PPM 24:53PPM 25 Q You, personally, did that, or you were part of a 12:50PPM 25 Q You, personally, did that, or you were part of a 12:50PPM 26 Q Right 12:54PPM 27 A So that's what I was thinking It was -it was 12:51PPM 28 Q Okay And do you know whether, in the initial 12:51PPM 29 Q Okay And do you know whether, in the initial 12:51PPM 29 Q Okay And do you know whether, in the initial 12:51PPM 20 Q Okay And do you know whether, in the initial 12:51PPM 20 Q Okay And do you know whether, in the initial 12:51PPM 20 Q Okay And do you know whether, in the initial 12:51PPM 20 Q Okay And do you know whether, in the initial 12:51PPM 20 Q Okay And do you know whether, in the initial 12:51PPM 20 Q Okay And do you know whether, in the initial 12:51PPM	18 software release goes out Customers will typically try 12:49PM	
21 incetting their exact functional needs So we get 12:49PM 22 feedbacks on on that type of thing; that, "I asked 12:49PM 23 you to do this, but your thing is doing slightly 12:49PM 24 different. Can you change the behavior of that?" 12:49PM 24 different Can you change the behavior of that?" 12:49PM 25 Command line kind of thing, customers don't care 12:49PM 26 Town and line kind of thing, customers don't care 12:49PM 27 Expended to the command line kind of thing, customers don't care 12:49PM 28 December 12:50PM 29 Let's go back to Eshibit 54, and could you 12:50PM 20 Let's go back to third from the bottom 12:50PM 20 Let's go back to third from the bottom 12:50PM 20 Let's go back to third from the bottom 12:50PM 20 Let's go back to third from the bottom 12:50PM 20 Let's go back to third from the bottom 12:50PM 20 Let's go back to third from the bottom 12:50PM 20 Let's go back to third from the bottom 12:50PM 20 Let's go back to third from the bottom	19 your functionality and give you feedback in terms of how 12:49PM	19 supported IP Version 4 prefix routing 12:52PM
22 feedbacks on on that type of thing; that, "I asked 12:49PM 23 you to do this, but your thing is doing slightly 12:49PM 24 different Can you change the behavior of that?" 12:49PM 25 Command line kind of thing, customers don't care 12:49PM 25 Command line kind of thing, customers don't care 12:49PM 26 later when IPv6 work was happening So if you see 12:53PM 27 later when IPv6 work was happening So if you see 12:53PM 26 later when IPv6 work was happening So if you see 12:53PM 27 later when IPv6 work was happening So if you see 12:53PM 26 later when IPv6 work was happening So if you see 12:53PM 27 later when IPv6 work was happening So if you see 12:53PM 27 later when IPv6 work was happening So if you see 12:53PM 27 later when IPv6 work was happening So if you see 12:53PM 28 later when IPv6 work was happening So if you see 12:53PM 27 later when IPv6 work was happening So if you see 12:53PM 28 later when IPv6 work was happening So if you see 12:53PM 29 later when IPv6 work was happening So if you see 12:53PM 29 later when IPv6 work was happening So if you see 12:53PM 29 later when IPv6 work was happening So if you see 12:53PM 29 later when IPv6 work was happening So if you see 12:53PM 29 later when IPv6 work was happening So if you see 12:53PM 29 later when IPv6 work was happening So if you see 12:53PM 29 later when IPv6 work was happening So if you see 12:53PM 29 later when IPv6 work was happening So if you see 12:53PM 29 later when IPv6 ospf read was read 12:53PM 20 later when IPv6 work was happening So if you see 12:53PM 20 later when IPv6 work was happening So if you see 12:53PM 20 later when IPv6 ospf read were later when IPv6 ospf read were later when IPv6 ospf read were later when IPv6 ospf read were later when IPv6 ospf read were later when IPv6 ospf read were later when IPv6 ospf read were later when IPv6 ospf read were later when IPv6 ospf read were late	20 they want to change the functionality, if it is not 12:49PM	20 When IP Version 6 became popular, OSPF had to 12:53PM
23 you to do this, but your thing is doing slightly 12:49PM 24 different. Can you change the behavior of that?" 12:49PM 25 Command line kind of thing, customers don't care 12:49PM 26 things which are referred to IPv6 OSPF, they are 12:53PM 27 and 12:53PM 28 things which are referred to IPv6 OSPF, they are 12:53PM 26 does 12:50PM 27 of SPF Version 3. We could have chosen to 12:53PM 26 does 12:50PM 27 of SPF Version 3. We could have chosen to 12:53PM 26 does 12:50PM 27 of SPF Version 3. We could have chosen to 12:53PM 27 of SPF Version 3. We chose to call it 12:53PM 27 of SPF Version 3. We chose to call it 12:53PM 27 of SPF Version 3. We chose to call it 12:53PM 27 of SPF Version 3. We chose to call it 12:53PM 28 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 2. 12:53PM 29 of SPF Version 2. 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 2. 12:53PM 29 of SPF Version 2. 12:53PM 29 of SPF Version 2. 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of SPF Version 3. We chose to call it 12:53PM 29 of S	21 meeting their exact functional needs So we get 12:49PM	21 reinvent itself, and OSPF Version 3 came along, which is 12:53PM
24 later when IPv6 work was happening. So if you see: 12:53PM 25 Command line kind of thing, customers don't care. 12:49PM 26 does 12:50PM 2 does 12:50PM 3 Q Okay Let's go back to Exhibit 54, and could you. 12:50PM 4 please turn to page 16 5 Do you see the command "IPv6 ospf area"? It's 12:50PM 5 Do you see the command "IPv6 ospf area"? It's 12:50PM 6 third from the bottom 12:50PM 7 A Yes 12:50PM 8 Q And you are indicated as the author, slash, 12:50PM 9 originator with respect to that contamad, is that 12:50PM 10 correct? 12:50PM 11 A Yes 12:50PM 12 Q Did you come up with the expression "IPv6 ospf area" to see the command that you were part of a 12:50PM 14 A Yes Soyes I mean, the naswer is yes 12:50PM 15 Q You, personally, did that, or you were part of a 12:50PM 16 team that did that? 12:50PM 17 A So that's what I was the lead developer, so I 12:51PM 18 a set of people, but I was the lead developer, as I 12:51PM 20 Qo Qox And do you know whether, in the initial 12:51PM 21 implementer implementors who were part of the 12:51PM 22 Q Dox And do you know whether, in the initial 12:51PM 23 Q Okay And do you know whether, in the initial 12:51PM 24 later when IPv6 osPF, they are 12:53PM Page 104 1 referring to OSPF Version 3. We chose those the 12:53PM 2 call it OSPFv3, or OSPF Version 3. We chose those to call it 12:53PM 4 Page 104 1 referring to OSPF Version 3. We chose those to call it 12:53PM 4 Q So before you named the IPv6 OSPF area command, 12:53PM 4 Q So before you named the IPv6 OSPF area command, 12:53PM 5 Cisco already used a command with a name "jp ospf area"; 12:53PM 5 Cisco already used a command with a name "jp ospf area"; 12:53PM 7 A That is correct? 12:53PM 8 Q Okay 12:53PM 9 A And "jp ospf" there referred to OSPF Version 2 12:53PM 10 Q Right 12:53PM 11 A A Pes 12:53PM 12 Q Did you corne up with the expression "IPv6 ospf" 12:50PM 13 A IP versionyes IPv6 refers to Version 6 of 12:54PM 14 the IP protocol, which is a different Internet RFC 12:54PM 15 Q Right 12:54PM 16 And and in that RFC	22 feedbacks on on that type of thing; that, "I asked 12:49PM	22 a separate Internet Internet RFC, right? 12:53PM
25 Command line kind of thing, customers don't care 12:49PM Page 102 25 things which are referred to IPv6 OSPF, they are 12:53PM Page 104 1 They don't want to get into Cisco does what Cisco 12:49PM 2 does 12:50PM 2 call it OSPFv3, or OSPF Version 3 We could have chosen to 12:53PM 2 does 12:50PM 2 call it OSPFv3, or OSPF Version 3 We chose to call it 12:53PM 3 Q Okay Let's go back to Exhibit 54, and could you 12:50PM 4 please turn to page 16 12:50PM 5 Do you see the command "IPv6 ospf area"? It's 12:50PM 5 Cisco already used a command with a name "ip ospf area"; 12:53PM 6 third from the bottom 12:50PM 6 third from the bottom 12:50PM 7 A Yes 12:50PM 7 A That is correct 12:53PM 8 Q And you are indicated as the author, slash, 12:50PM 8 Q Okay 12:53PM 9 originator with respect to that command; is that 12:50PM 10 Q Right 12:53PM 11 And IPv6 refers to Version 6 of the IP protocol; 12:53PM 11 And IPv6 refers to Version 6 of 12:54PM 12 Q Did you come up with the expression "IPv6 ospf 12:50PM 13 A IP version yes IPv6 refers to Version 6 of 12:54PM 14 the IP protocol, which is a different Internet RFC 12:54PM 15 Q You, personally, did that, or you were part of a 12:50PM 16 cann that did that? 12:50PM 17 it to you if you want the it uses that RFC uses 12:54PM 17 it to you if you want the it uses that RFC uses 12:54PM 19 wrote the initial functional spec, initial design and 12:51PM 19 worde the initial functional spec, initial design and 12:51PM 19 worde the initial functional spec, initial design and 12:51PM 19 worde the initial functional spec, initial design and 12:51PM 19 Worde the initial functional spec, initial design and 12:51PM 19 Worde the initial functional spec, initial design and 12:51PM 19 Worde the initial functional spec, initial design and 12:51PM 19 Worde the initial functional spec, initial design and 12:51PM 19 Worde the initial functional spec, initial design and 12:51PM 19 Worde the initial functional spec, and design and user interface, the 12:51PM 19 Worde the initial functiona	23 you to do this, but your thing is doing slightly 12:49PM	23 So if you look at RFC OSPF Version 3, it came 12:53PM
Page 102 Page 102 Page 103	24 different Can you change the behavior of that?" 12:49PM	24 later when IPv6 work was happening So if you see 12:53PM
1 They don't want to get into Cisco does what Cisco 12:49PM 2 does 12:50PM 3 Q Okay Let's go back to Exhibit 54, and could you 12:50PM 4 please turn to page 16 12:50PM 5 Do you see the command "IPv6 ospfarea"? It's 12:50PM 6 third from the bottom 12:50PM 7 A Yes 12:50PM 8 Q And you are indicated as the author, slash, 12:50PM 9 originator with respect to that command; is that 12:50PM 10 correct? 12:53PM 11 A Yes 12:50PM 10 Q Right 12:53PM 11 A Yes 12:50PM 12 Q Did you come up with the expression "IPv6 ospf 12:50PM 13 area"? 12:50PM 14 A Yes Soyes I mean, the answer is yes 12:50PM 15 Q You, personally, did that, or you were part of a 12:50PM 16 tean that did that? 12:50PM 17 A So that's what I was thinking. It was -it was 12:51PM 18 a set of people, but I was the lead developer, so I 12:51PM 19 wrote the initial functional spec, initial design and 12:51PM 20 Q Okay And do you know whether, in the initial 12:51PM 21 Q Okay And do you know whether, in the initial 12:51PM 22 Q Okay And do you know whether, in the initial 12:51PM 24 functional spec and design and user interface, the 12:51PM 25 command that you proposed was "IPv6 ospfarea"? trass. 12:51PM 25 command that you proposed was "IPv6 ospfarea"? it:51PM 26 correct? 12:55PM 27 A That is correct? 12:55PM 28 Q Okay And was thinking. It was -it was 12:51PM 29 A And "ip ospf" there referred to OSPF Version 2 12:53PM 11 A And -n and in that RFC and I'm happy to show 12:54PM 12 into you if you want the it uses that RFC uses 12:54PM 13 A I don't recall if it does or does not 12:54PM 29 Project, so they helped code it, basically 12:51PM 20 Q Okay And do you know whether, in the initial 12:51PM 21 indementer implementers who were part of the 12:51PM 22 BY MR SILBERT: 12:55PM 23 Q Okay And do you know whether, in the initial 12:51PM 24 functional spec and design and user interface, the 12:51PM 25 command that you proposed was "IPv6 ospfarea" versus 12:51PM 26 command that you proposed was "IPv6 ospfarea" versus 12:51PM 27 Command that you proposed was "	25 Command line kind of thing, customers don't care 12:49PM	1 -
2 does 12:50PM 3 Q Okay Let's go back to Exhibit 54, and could you 12:50PM 4 please turn to page 16 12:50PM 5 Do you see the command "IPv6 ospf area"? It's 12:50PM 6 third from the bottom 12:50PM 7 A Yes 12:50PM 8 Q And you are indicated as the author, slash, 12:50PM 9 originator with respect to that command: is that 12:50PM 10 correct? 12:53PM 11 A Yes 12:50PM 12:50PM 10 Q Right 11 A Yes 12:50PM 11 A Yes 12:50PM 12:50PM 12:50PM 13 area"? 12:50PM 14 A Yes Soyes I mean, the answer is yes 12:50PM 15 Q You, personally, did that, or you were part of a 12:50PM 16 team that did that? 12:50PM 17 A So that's what I was thinking. It wasit was 12:51PM 18 a set of people, but I was the lead developer, so I 12:51PM 10 imitial user interface, but there were different 12:51PM 11 implementer implementers who were part of the 12:51PM 12 Q Diay on know whether, in the initial 12:51PM 13 Q Okay And do you know whether, in the initial 12:51PM 14 the IP protocol, which is a different Internet RFC 12:54PM 15 Q Right 16 CAND and in that RFC and I'm happy to show 12:54PM 16 Initial user interface, but there were different 12:51PM 17 A Idon't recall if it does or does not 12:54PM 18 the acronym IPv6: correct? 12:54PM 19 wrote the initial functional spec, initial design and 12:51PM 20 Q Kay And do you know whether, in the initial 12:51PM 21 implementer implementers who were part of the 12:51PM 22 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM 24 functional spec and design and user interface, the 12:51PM 25 command that you proposed was "IPv6 copf area" versus 12:51PM 26 cill to SPFv3, or OSPF Version 3 Recommand, 12:55PM 27 cill to SPFv3, or OSPF Version 3 Recommand, 12:55PM 28 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM 29 the little of You recognize it 12:55PM 20 command that you proposed was "IPv6 ospf area" versus 12:51PM 21 the IPv6 correct? 22 BY MR SILBERT: 12:55PM 23 Q Okay And do you know whether, in the initial 12:51PM 24 tell me if you recognize it 12:55PM	Page 102	Page 104
3 Pv6 OSPF in our command syntax 12:53PM 4 please turn to page 16 12:50PM 5 Do you see the command "IPv6 ospf area"? It's 12:50PM 6 third from the bottom 12:50PM 7 A Yes 12:50PM 8 Q And you are indicated as the author, stash, 12:50PM 9 originator with respect to that command; is that 12:50PM 10 correct? 12:53PM 11 A Yes 12:50PM 12 Q Did you come up with the expression "IPv6 ospf area" to Q Right 12 Q Did you come up with the expression "IPv6 ospf 12:50PM 13 area"? 12:50PM 14 A Yes Soyes I mean, the answer is yes 12:50PM 15 Q You, personally, did that, or you were part of a 12:51PM 16 team that did that? 17 A So that's what I was thinking. It was — it was 12:51PM 18 a set of people, but I was the lead developer, so I 12:51PM 19 initial user interface, but there were different 12:51PM 20 Q Kay And do you know whether, in the initial 12:51PM 21 Q Didy and command syntax 21:53PM 22 Cormand that you proposed was "IPv6 ospf area" versus 12:51PM 23 Q Okay And do you know whether, in the initial 12:51PM 24 Intertional spec and design and user interface, the 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 26 command with a name "ip ospf area"; 12:53PM 27 A That is correct? 12:53PM 28 Q Okay And do you know whether, in the initial 12:51PM 29 A And "ip ospf" there referred to OSPF Version 2 12:53PM 10 Q Right 12:53PM 11 And IPv6 ospf area", 12:53PM 12 correct? 12:54PM 13 A IP version — yes IPv6 refers to Version 6 of 12:54PM 14 the IP protocol, which is a different Intermet RFC 12:54PM 15 Q Right 12:54PM 16 And — and in that RFC — and I'm happy to show 12:54PM 17 it to you if you want — the — it uses — that RFC uses 12:54PM 18 the acronym IPv6: correct? 12:54PM 19 A I don't recall if it does or does not 12:54PM 20 (Exhibit 58 was marked for 12:54PM 21 identification by the Court Reporter) 12:54PM 22 BY MR SILBERT: 12:54PM 23 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM 24 tell me if you recognize it 12:55PM	I They don't want to get into Cisco does what Cisco 12:49PM	1 referring to OSPF Version 3 We could have chosen to 12:53PM
4 Please turn to page 16 12:50PM 4 Q So before you named the IPv6 OSPF area command, 12:53PM 5 Do you see the command "IPv6 ospf area"? It's 12:50PM 5 Cisco already used a command with a name "ip ospf area"; 12:53PM 6 third from the bottom 12:50PM 6 correct? 12:53PM 7 A Yes 12:50PM 7 A Yes 12:50PM 7 A That is correct 12:53PM 8 Q And you are indicated as the author, slash, 12:50PM 8 Q Okay 12:53PM 9 originator with respect to that conunand; is that 12:50PM 9 A And "ip ospf" there referred to OSPF Version 2 12:53PM 10 correct? 12:50PM 10 Q Right 12:53PM 11 A Yes 12:50PM 11 And IPv6 refers to Version 6 of the IP protocol; 12:53PM 12 Q Did you come up with the expression "IPv6 ospf 12:50PM 12 correct? 12:54PM 13 area"? 12:50PM 13 area"? 12:50PM 14 the IP protocol, which is a different Intermet RFC 12:54PM 15 Q You, personally, did that, or you were part of a 12:50PM 16 tean that did that? 12:50PM 16 And—and in that RFC—and I'm happy to show 12:54PM 17 A So that's what I was the lead developer, so I 12:51PM 18 a set of people, but I was the lead developer, so I 12:51PM 19 wrote the initial functional spec, initial design and 12:51PM 19 wrote the initial functional spec, initial design and 12:51PM 19 wrote the initial user interface, but there were different 12:51PM 19 indentification by the Court Reporter) 12:54PM 12:55PM 12:54PM 12:55PM 12:54PM 12:55PM 12:54PM 12:55PM 12:54PM 12:55PM 12:54PM 12:55PM 12:54PM 12:55PM 12:54PM 12:55PM 12:54PM 12:55PM 12:	2 does 12:50PM	2 call it OSPFv3, or OSPF Version 3 We chose to call it 12:53PM
5 Do you see the command "IPv6 ospf area"? It's 12:50PM 6 third from the bottom 12:50PM 7 A Yes 12:50PM 7 A Yes 12:50PM 7 A That is correct 12:53PM 8 Q And you are indicated as the author, slash, 12:50PM 8 Q Okay 12:53PM 9 originator with respect to that command; is that 12:50PM 9 A And "ip ospf" there referred to OSPF Version 2 12:53PM 10 correct? 12:50PM 10 Q Right 12:53PM 11 A Yes 12:50PM 11 And IPv6 refers to Version 6 of the IP protocol; 12:53PM 12 Q Did you come up with the expression "IPv6 ospf 12:50PM 12 correct? 12:54PM 13 area"? 12:50PM 14 the IP protocol, which is a different Internet RFC 12:54PM 15 Q You, personally, did that, or you were part of a 12:50PM 16 And—and in that RFC—and I'm happy to show 12:54PM 17 A So that's what I was the lead developer, so I 12:51PM 18 a set of people, but I was the lead developer, so I 12:51PM 19 wrote the initial functional spec, initial design and 12:51PM 20 initial user interface, but there were different 12:51PM 21 inplementer—implementers who were part of the 12:51PM 22 BY MR SILBERT: 12:54PM 12:54PM 22 BY MR SILBERT: 12:54PM 23 Q Okay And do you know whether, in the initial 12:51PM 24 Itell me if you recognize it 12:55PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 comman	3 Q Okay Let's go back to Exhibit 54, and could you 12:50PM	3 IPv6 OSPF in our command syntax 12:53PM
5 Do you see the command "IPv6 ospf area"? It's 12:50PM 6 third from the bottom 12:50PM 7 A Yes 12:50PM 7 A Yes 12:50PM 7 A That is correct 12:53PM 8 Q And you are indicated as the author, slash, 12:50PM 8 Q Okay 12:53PM 9 originator with respect to that command; is that 12:50PM 9 A And "ip ospf" there referred to OSPF Version 2 12:53PM 10 correct? 12:50PM 10 Q Right 12:53PM 11 A Yes 12:50PM 11 And IPv6 refers to Version 6 of the IP protocol; 12:53PM 12 Q Did you come up with the expression "IPv6 ospf 12:50PM 12 correct? 12:54PM 13 area"? 12:50PM 14 the IP protocol, which is a different Internet RFC 12:54PM 15 Q You, personally, did that, or you were part of a 12:50PM 16 And—and in that RFC—and I'm happy to show 12:54PM 17 A So that's what I was the lead developer, so I 12:51PM 18 a set of people, but I was the lead developer, so I 12:51PM 19 wrote the initial functional spec, initial design and 12:51PM 20 initial user interface, but there were different 12:51PM 21 inplementer—implementers who were part of the 12:51PM 22 BY MR SILBERT: 12:54PM 12:54PM 22 BY MR SILBERT: 12:54PM 23 Q Okay And do you know whether, in the initial 12:51PM 24 Itell me if you recognize it 12:55PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 comman	4 please turn to page 16 12:50PM	4 Q So before you named the IPv6 OSPF area command, 12:53PM
6 third from the bottom 12:50PM 7 A Yes 12:50PM 8 Q And you are indicated as the author, slash, 12:50PM 8 Q And you are indicated as the author, slash, 12:50PM 9 originator with respect to that command: is that 12:50PM 10 correct? 12:50PM 11 A Yes 12:50PM 12 Q Did you come up with the expression "IPv6 ospf 12:50PM 13 area"? 12:50PM 14 A Yes So yes 1 mean, the answer is yes 12:50PM 15 Q You, personally, did that, or you were part of a 12:50PM 16 team that did that? 17 A So that's what I was thinking. It was it was 12:51PM 18 a set of people, but I was the lead developer, so I 12:51PM 19 wrote the initial functional spec, initial design and 12:51PM 20 Okay 21 And "Ip ospf" there referred to OSPF Version 2 12:53PM 21 Q Did you come up with the expression "IPv6 ospf 12:50PM 22 BY MR SILBERT: 12:54PM 13 A IP versiou yes IPv6 refers to Version 6 of 12:54PM 14 the IP protocol, which is a different Internet RFC 12:54PM 15 Q You, personally, did that, or you were part of a 12:50PM 16 And and in that RFC and I'm happy to show 12:54PM 17 A So that's what I was thinking. It was it was 12:51PM 18 the acronym IPv6; correct? 12:54PM 19 wrote the initial functional spec, initial design and 12:51PM 20 (Exhibit 58 was marked for 12:54PM 21 implementer implementers who were part of the 12:51PM 22 BY MR SILBERT: 23 Q Okay 24 tell me if you recognize it 25:5PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 A Yes, I do 12:55PM	5 Do you see the command "IPv6 ospf area"? It's 12:50PM	
8 Q And you are indicated as the author, slash, 12:50PM 9 originator with respect to that command; is that 12:50PM 9 A And "ip ospf" there referred to OSPF Version 2 12:53PM 10 correct? 12:50PM 10 Q Right 12:53PM 11 And IPv6 refers to Version 6 of the IP protocol; 12:53PM 12 Q Did you come up with the expression "IPv6 ospf 12:50PM 12 correct? 12:54PM 13 A IP version yes IPv6 refers to Version 6 of 12:54PM 14 A Yes So yes I mean, the answer is yes 12:50PM 14 the IP protocol, which is a different Internet RFC 12:54PM 15 Q You, personally, did that, or you were part of a 12:50PM 15 Q Right 12:54PM 16 team that did that? 12:50PM 16 And and in that RFC and I'm happy to show 12:54PM 17 A So that's what I was thinking It was it was 12:51PM 17 it to you if you want the it uses that RFC uses 12:54PM 19 wrote the initial functional spec, initial design and 12:51PM 19 A I don't recall if it does or does not 12:54PM 10 initial user interface, but there were different 12:51PM 20 (Exhibit 58 was marked for 12:54PM 21 inplementer implementers who were part of the 12:51PM 21 identification by the Court Reporter) 12:54PM 22 project, so they helped code it, basically 12:51PM 23 Q Okay And do you know whether, in the initial 12:51PM 24 tell me if you recognize it 12:55PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 A Yes, I do 12:55PM	6 third from the bottom 12:50PM	6 correct? 12:53PM
8 Q And you are indicated as the author, slash, 12:50PM 9 originator with respect to that command; is that 12:50PM 9 A And "ip ospf" there referred to OSPF Version 2 12:53PM 10 correct? 12:50PM 10 Q Right 12:53PM 11 And IPv6 refers to Version 6 of the IP protocol; 12:53PM 12 Q Did you come up with the expression "IPv6 ospf 12:50PM 12 correct? 12:54PM 13 A IP version yes IPv6 refers to Version 6 of 12:54PM 14 A Yes So yes I mean, the answer is yes 12:50PM 14 the IP protocol, which is a different Internet RFC 12:54PM 15 Q You, personally, did that, or you were part of a 12:50PM 15 Q Right 12:54PM 16 team that did that? 12:50PM 16 And and in that RFC and I'm happy to show 12:54PM 17 A So that's what I was thinking It was it was 12:51PM 17 it to you if you want the it uses that RFC uses 12:54PM 19 wrote the initial functional spec, initial design and 12:51PM 19 A I don't recall if it does or does not 12:54PM 10 initial user interface, but there were different 12:51PM 20 (Exhibit 58 was marked for 12:54PM 21 inplementer implementers who were part of the 12:51PM 21 identification by the Court Reporter) 12:54PM 22 project, so they helped code it, basically 12:51PM 23 Q Okay And do you know whether, in the initial 12:51PM 24 tell me if you recognize it 12:55PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 A Yes, I do 12:55PM	7 A Yes 12:50PM	7 A That is correct 12:53PM
9 originator with respect to that command; is that 12:50PM 10 correct? 12:53PM 11 A Yes 12:50PM 10 Q Right 12:53PM 11 A Yes 12:50PM 11 And IPv6 refers to Version 6 of the IP protocol; 12:53PM 12 Q Did you come up with the expression "IPv6 ospf 12:50PM 12 correct? 12:54PM 13 area"? 12:50PM 13 A IP version yes IPv6 refers to Version 6 of 12:54PM 14 A Yes So yes 1 mean, the answer is yes 12:50PM 14 the IP protocol, which is a different Internet RFC 12:54PM 15 Q You, personally, did that, or you were part of a 12:50PM 15 Q Right 12:54PM 16 team that did that? 12:50PM 16 And and in that RFC and I'm happy to show 12:54PM 17 A So that's what I was thinking It was it was 12:51PM 18 a set of people, but I was the lead developer, so I 12:51PM 18 the acronym IPv6; correct? 12:54PM 19 wrote the initial functional spec, initial design and 12:51PM 19 A I don't recall if it does or does not 12:54PM 10 (Exhibit 58 was marked for 12:54PM 11 inplementer implementers who were part of the 12:51PM 12 identification by the Court Reporter 12:54PM 12 identification by the Court Reporter 12:54PM 12 identification by the Court Reporter 12:54PM 12 identification by the Court Reporter 12:54PM 12:54PM 13 Q Okay And do you know whether, in the initial 12:51PM 12:54PM 13 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM 13:55PM 14 tell me if you recognize it 12:55PM 12:55PM 12:55PM 12:55PM 12:55PM 13:55PM		
10 correct? 12:50PM 11 A Yes 12:50PM 12 Q Did you come up with the expression "IPv6 ospf 12:50PM 13 area"? 12:50PM 14 the IP protocol, which is a different Internet RFC 12:54PM 15 Q You, personally, did that, or you were part of a 12:50PM 16 team that did that? 17 A So that's what I was thinking It was it was 12:51PM 18 a set of people, but I was the lead developer, so I 12:51PM 19 wrote the initial functional spec, initial design and 12:51PM 10 Q Right 11 And IPv6 refers to Version 6 of the IP protocol; 12:53PM 11 A IP version yes IPv6 refers to Version 6 of 12:54PM 12 correct? 12:54PM 13 A IP version yes IPv6 refers to Version 6 of 12:54PM 14 the IP protocol, which is a different Internet RFC 12:54PM 15 Q Right 12:54PM 16 And and in that RFC and I'm happy to show 12:54PM 17 it to you if you want the it uses that RFC uses 12:54PM 18 the acronym IPv6: correct? 12:54PM 19 wrote the initial functional spec, initial design and 12:51PM 10 (Exhibit 58 was marked for 12:54PM 11 identification by the Court Reporter) 12:54PM 12 project, so they helped code it, basically 12:51PM 12 project, so they helped code it, basically 12:51PM 13 A IP version yes IPv6 refers to Version 6 of the IP protocol, the iP protocol, the iP protocol, the iP protocol, the iP protocol, the iP protocol, the iP protocol, the iP protocol, the iP protocol, which is a different Internet RFC 12:54PM 15 Q Right 16 And and in that RFC and I'm happy to show 12:54PM 17 it to you if you want the it uses that RFC uses 12:54PM 18 the acronym IPv6: correct? 12:54PM 19 A I don't recall if it does or does not 12:54PM 20 (Exhibit 58 was marked for 12:54PM 21 identification by the Court Reporter) 22:54PM 23 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM 24 tell me if you recognize it 12:55PM 25 A Yes, I do 12:55PM		
11 A Yes 12:50PM 12 correct? 12:54PM 13 area"? 12:50PM 13 A IP version yes IPv6 refers to Version 6 of the IP protocol; 12:54PM 14 A Yes So yes I mean, the answer is yes 12:50PM 15 Q You, personally, did that, or you were part of a 12:50PM 15 Q Right 12:54PM 16 team that did that? 12:50PM 16 And and in that RFC and I'm happy to show 12:54PM 17 A So that's what I was thinking. It was it was 12:51PM 17 it to you if you want the it uses that RFC uses 12:54PM 18 a set of people, but I was the lead developer, so I 12:51PM 18 the acronym IPv6: correct? 12:54PM 19 wrote the initial functional spec, initial design and 12:51PM 19 A I don't recall if it does or does not 12:54PM 10 implementer implementers who were part of the 12:51PM 11 identification by the Court Reporter 12:54PM 12:54PM 13 Q Okay And do you know whether, in the initial 12:51PM 14 interioral spec and design and user interface, the 12:51PM 13 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM 14 ill me if you recognize it 12:55PM 12:55PM 12:55PM 12:55PM 12:55PM 12:55PM 13:55PM 14 Ill me if you recognize it 12:55PM 12:55PM 12:55PM 12:55PM 13:55PM 14 Ill me if you recognize it 12:55PM 12:55PM 12:55PM 12:55PM 13:55PM 13:55PM 14 Ill me if you recognize it 12:55PM 12:55PM 13:55PM 14 Ill me if you recognize it 12:55PM 13:55PM 14 Ill me if you recognize it 12:55PM 13:55PM 14 Ill me if you recognize it 12:55PM 13:55PM 14 Ill me if you recognize it 12:55PM 13:55PM 14 Ill me if you recognize it 12:55PM 13:55PM 14 Ill me if you recognize it 12:55PM 15:55PM	3	, .
12 O Did you come up with the expression "IPv6 ospf 12:50PM		
13 area"? 12:50PM 14 A Yes So yes I mean, the answer is yes 12:50PM 15 Q You, personally, did that, or you were part of a 12:50PM 16 team that did that? 12:50PM 16 And and in that RFC and I'm happy to show 12:54PM 17 A So that's what I was thinking It was it was 12:51PM 18 a set of people, but I was the lead developer, so I 12:51PM 19 wrote the initial functional spec, initial design and 12:51PM 10 initial user interface, but there were different 12:51PM 11 implementer implementers who were part of the 12:51PM 12 project, so they helped code it, basically 12:51PM 13 A IP version yes IPv6 refers to Version 6 of 12:54PM 14 the IP protocol, which is a different Intermet RFC 12:54PM 15 Q Right 12:54PM 16 And and in that RFC and I'm happy to show 12:54PM 17 it to you if you want the it uses that RFC uses 12:54PM 18 the acronym IPv6; correct? 12:54PM 19 A I don't recall if it does or does not 12:54PM 20 (Exhibit 58 was marked for 12:54PM 21 identification by the Court Reporter) 12:54PM 22 project, so they helped code it, basically 12:51PM 23 Q Okay And do you know whether, in the initial 12:51PM 24 tell me if you recognize it 12:55PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 A Yes, I do 12:55PM		•
14 A Yes So yes I mean, the answer is yes 12:50PM 15 Q You, personally, did that, or you were part of a 12:50PM 16 team that did that? 12:50PM 16 And and in that RFC and I'm happy to show 12:54PM 17 A So that's what I was thinking. It was it was 12:51PM 18 a set of people, but I was the lead developer, so I 12:51PM 19 wrote the initial functional spec, initial design and 12:51PM 19 wrote the initial functional spec, initial design and 12:51PM 20 initial user interface, but there were different 12:51PM 21 implementer implementers who were part of the 12:51PM 22 project, so they helped code it, basically 12:51PM 23 Q Okay And do you know whether, in the initial 12:51PM 24 functional spec and design and user interface, the 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 26 Interface, but there were different 12:51PM 27 Q You, personally, did that, or you were part of a 12:54PM 28 A Yes, I do 19 A I don't recall if it does or does not 12:54PM 29 (Exhibit 58 was marked for 12:54PM 20 (Exhibit 58 was marked for 12:54PM 21 identification by the Court Reporter) 12:54PM 22 BY MR SILBERT: 12:54PM 23 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM 24 tell me if you recognize it 12:55PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 A Yes, I do 12:55PM		
15 Q You, personally, did that, or you were part of a 12:50PM 16 team that did that? 12:50PM 16 team that did that? 12:50PM 17 A So that's what I was thinking It was it was 12:51PM 18 a set of people, but I was the lead developer, so I 12:51PM 19 wrote the initial functional spec, initial design and 12:51PM 19 wrote the initial functional spec, initial design and 12:51PM 20 initial user interface, but there were different 12:51PM 21 implementer implementers who were part of the 12:51PM 22 project, so they helped code it, basically 12:51PM 23 Q Okay And do you know whether, in the initial 12:51PM 24 functional spec and design and user interface, the 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 26 And and in that RFC and I'm happy to show 12:54PM 17 it to you if you want the it uses that RFC uses 12:54PM 18 the acronym IPv6: correct? 12:54PM 19 A I don't recall if it does or does not 12:54PM 20 (Exhibit 58 was marked for 12:54PM 21 identification by the Court Reporter) 12:54PM 22 BY MR SILBERT: 12:54PM 23 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM 24 tell me if you recognize it 12:55PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 A Yes, I do 12:55PM		-
16 team that did that? 12:50PM 16 And and in that RFC and I'm happy to show 12:54PM 17 A So that's what I was thinking. It was it was 12:51PM 18 a set of people, but I was the lead developer, so I 12:51PM 19 wrote the initial functional spec, initial design and 12:51PM 20 initial user interface, but there were different 12:51PM 21 implementer implementers who were part of the 12:51PM 22 BY MR SILBERT: 12:54PM 23 Q Okay And do you know whether, in the initial 12:51PM 24 functional spec and design and user interface, the 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 26 And and in that RFC and I'm happy to show 12:54PM 17 it to you if you want the it uses that RFC uses 12:54PM 18 the acronym IPv6: correct? 12:54PM 19 A I don't recall if it does or does not 12:54PM 20 (Exhibit 58 was marked for 12:54PM 21 identification by the Court Reporter) 12:54PM 22 BY MR SILBERT: 12:54PM 23 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM 24 tell me if you recognize it 12:55PM 25 A Yes, I do 12:55PM		
17 it to you if you want the it uses that RFC uses 12:54PM 18 a set of people, but I was the lead developer, so I 12:51PM 19 wrote the initial functional spec, initial design and 12:51PM 10 initial user interface, but there were different 12:51PM 11 implementer implementers who were part of the 12:51PM 12 project, so they helped code it, basically 12:51PM 13 Q Okay And do you know whether, in the initial 12:51PM 15 It to you if you want the it uses that RFC uses 12:54PM 16 the acronym IPv6: correct? 12:54PM 17 it to you if you want the it uses that RFC uses 12:54PM 18 the acronym IPv6: correct? 12:54PM 20 (Exhibit 58 was marked for 12:54PM 21 identification by the Court Reporter) 12:54PM 22 BY MR SILBERT: 12:54PM 23 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM 24 tell me if you recognize it 12:55PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 26 A Yes, I do 12:55PM		` ~
18 a set of people, but I was the lead developer, so I 12:51PM 19 wrote the initial functional spec, initial design and 12:51PM 19 A I don't recall if it does or does not 12:54PM 20 initial user interface, but there were different 12:51PM 21 inplementer implementers who were part of the 12:51PM 22 project, so they helped code it, basically 12:51PM 23 Q Okay And do you know whether, in the initial 12:51PM 24 functional spec and design and user interface, the 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 26 the acronym IPv6; correct? 12:54PM 27 (Exhibit 58 was marked for 12:54PM 28 BY MR SILBERT: 12:54PM 29 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM 20 (Exhibit 58 was marked for 12:54PM 21 identification by the Court Reporter) 12:54PM 22 BY MR SILBERT: 12:54PM 23 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM 24 tell me if you recognize it 12:55PM 25 A Yes, I do 12:55PM		
19 wrote the initial functional spec, initial design and 12:51PM 20 initial user interface, but there were different 12:51PM 21 implementer implementers who were part of the 12:51PM 22 project, so they helped code it, basically 12:51PM 23 Q Okay And do you know whether, in the initial 12:51PM 24 functional spec and design and user interface, the 12:51PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 26 (Exhibit 58 was marked for 12:54PM 27 identification by the Court Reporter (12:54PM) 28 BY MR SILBERT: 12:54PM 29 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM 20 (Exhibit 58 was marked for 12:54PM) 21 identification by the Court Reporter (12:54PM) 22 BY MR SILBERT: 12:54PM 23 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM 24 tell me if you recognize it 12:55PM 25 A Yes, I do 12:55PM	·	
20 initial user interface, but there were different 12:51PM 20 (Exhibit 58 was marked for 12:54PM 21 implementer implementers who were part of the 12:51PM 21 identification by the Court Reporter) 12:54PM 22 project, so they helped code it, basically 12:51PM 22 BY MR SILBERT: 12:54PM 23 Q Okay And do you know whether, in the initial 12:51PM 23 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM 24 tell me if you recognize it 12:55PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 A Yes, I do 12:55PM		
21 implementer implementers who were part of the 12:51PM 21 identification by the Court Reporter) 12:54PM 22 project, so they helped code it, basically 12:51PM 22 BY MR SILBERT: 12:54PM 23 Q Okay And do you know whether, in the initial 12:51PM 23 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM 24 functional spec and design and user interface, the 12:51PM 24 tell me if you recognize it 12:55PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 A Yes, I do 12:55PM	•	
22 project, so they helped code it, basically 12:51PM 22 BY MR SILBERT: 12:54PM 23 Q Okay And do you know whether, in the initial 12:51PM 23 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM 24 functional spec and design and user interface, the 12:51PM 24 tell me if you recognize it 12:55PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 A Yes, I do 12:55PM	,	,
23 Q Okay And do you know whether, in the initial 12:51PM 23 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM 24 functional spec and design and user interface, the 12:51PM 24 tell me if you recognize it 12:55PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 A Yes, I do 12:55PM		• • •
24 functional spec and design and user interface, the 12:51PM 24 tell me if you recognize it 12:55PM 25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 A Yes, I do 12:55PM	22 project, so they helped code it, basically 12:51PM	22 BY MR SILBERT: 12:54PM
25 command that you proposed was "IPv6 ospf area" versus 12:51PM 25 A Yes, I do 12:55PM	23 Q Okay And do you know whether, in the initial 12:51PM	23 Q Mr Roy, would you please look at Exhibit 58 and 12:55PM
	24 functional spec and design and user interface, the 12:51PM	24 tell me if you recognize it 12:55PM
Page 103		
	Page 103	Page 105

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 113 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

THOMB! COINIDDITINE	ATTORICETS ETES ONE!
1 Q What is it? 12:55PM	1 is done, go with it. 12:58PM
2 A This is an RFC which captures all the 12:55PM	2 Some of the other ways to do that could be, you 12:58PM
3 specifications for Internet Protocol Version 6. 12:55PM	3 could just say "ospfv3 area." We chose to call it "ipv6 12:58PM
4 Q Okay. And the title is "Internet Protocol 12:55PM	4 ospf area." 12:59PM
5 Version 6 (IPv6) Specification"; correct? 12:55PM	5 BY MR. SILBERT: 12:59PM
6 A That is correct. 12:55PM	6 Q And and did you model the command "ipv6 ospf 12:59PM
7 Q Okay. And does this refresh your recollection 12:55PM	7 area" on the pre-existing command "ip ospf area"? 12:59PM
8 that the Internet Protocol Version 6 specification 12:55PM	8 MR. NEUKOM: Objection; vague. 12:59PM
9 itself uses the acronym IPv6? 12:55PM	9 THE WITNESS: The pre-existence of "ip ospf area" 12:59PM
10 A This document does introduce the acronym IPv6, 12:55PM	10 was a strong motivator for us to converge on this 12:59PM
11 again, for the purposes of making the document more 12:55PM	
12 readable and not having to expand Internet Protocol 12:56PM	12 BY MR. SILBERT: 12:59PM
13 Version 6 everywhere. 12:56PM	13 Q Okay. Who else was on the team that I mean, I 12:59PM
14 Q And in the command "ipv6 ospf area," the term 12:56PM	14 understand you are saying you you did come up with 12:59PM
15 "ipv6" refers to this protocol, Exhibit 58; correct? 12:56PM	15 this command, but who else was on the team with you at 12:59PM
16 A The term IP yes, "ipv6" refers to the Internet 12:56PM	16 the time you came up with this command? And by "this 12:59PM
17 Protocol Version 6, which is described in this RFC. 12:56PM	17 command," I'm referring to "ipv6 ospf area." 12:59PM
18 Q Okay. And in the command "ipv6 ospf area," the 12:56PM	18 A I think there were multiple engineers. I can't 12:59PM
19 term "ospf" refers to the OSPF standard published by the 12:56PM	19 recollect the exact names at this point. 01:00PM
20 IETF; correct? 12:56PM	20 Q Okay. Let's move on. 01:00PM
21 A Not really. So if you just say "OSPF," you might 12:56PM	21 Do you still have page 16 of Exhibit 54 in front 01:00PM
22 think OSPF Version 2, and that's where you have to see 12:56PM	22 of you? 01:00PM
23 the whole context of what we are talking about. 12:56PM	23 A Yes, I do. 01:00PM
24 IPv6 OSPF is OSPF Version 3. So these two words 12:57PM	24 Q Next is "ipv6 ospf cost." 01:00PM
25 combined, IPv6 and OSPF, actually tells you to look at a 12:57PM	25 Do you see that, second from the bottom? 01:00PM
Page 106	Page 108
1 different RFC, which is the OSPF Version 3 RFC, but if 12:57PM	1 A Yes, I do. 01:00PM
2 you just told me "OSPF," I would have interpreted it as 12:57PM	2 Q And, again, you are indicated as the author, 01:00PM
3 you mean OSPF Version 2, which is a different RFC, just 12:57PM	3 slash, originator with respect to that command 01:00PM
4 for semantics 12:57PM	4 expression. 01:00PM
5 Q Understood, and you explained to me previously 12:57PM	5 Do you see that? 01:00PM
6 that the reason OSPF Version 3 was developed was to 12:57PM	6 A Yes. 01:00PM
-	7 MR. NEUKOM: Objection; misstates 01:00PM
,	8 mischaracterizes the document, 01:01PM
9 Q Okay And we may have discussed this earlier, 12:57PM	
10 but area is a parameter that's introduced in the OSPF 12:57PM	10 Q Okay. You and Cisco are indicated as the author, 01:01PM
11 specification; correct? 12:57PM	11 slash, originator; is that correct? 01:01PM
12 A Area is a collection or a cluster of devices 12:57PM	12 A Yeah, that's correct. 01:01PM
13 That concept does exist in in the RFCs, yes 12:57PM	13 Q And did you come up with the expression "ipv6 01:01PM
14 Q Okay And the RFCs refer to it as "area"; right? 12:57PM	14 ospf cost"? 01:01PM
15 A RFC documents does use the word "area," yes 12:57PM	15 A Yeah, it's the same. If you see the document, 01:01PM
16 Q Okay Is it a fair statement that when you came 12:58PM	16 which it lists the EK number, it's part of the same 01:01PM
17 up with the command "ipv6 ospf area," what you did was 12:58PM	17 document, so this and anything which talks about IPv6 01:01PM
18 refer to the pre-existing command "ip ospf area" and 12:58PM	18 OSPF is all part of sort of one development deferred, 01:01PM
19 changed the "ip" to "ipv6" because you were now dealing 12:58PM	19 and all those commands pretty much follow the same 01:01PM
20 with the IP Version 6? 12:58PM	20 paradigm. 01:01PM
21 MR NEUKOM: Objection; vague and compound 12:58PM	21 But to answer your specific question, yes, I 01:01PM
22 THE WITNESS: So we looked at we looked at 12:58PM	22 wrote that document and pretty much came up with the 01:01PM
23 what is existing in in Cisco IOS implementation, and 12:58PM	23 whole IPv6 OSPF command set. 01:01PM
24 that, generally, is one of the overriding things; that 12:58PM	
	24 Q And we can go through these one by one, and I 01:01PM
25 don't reinvent the wheel If there is something which 12:58PM	24 Q And we can go through these one by one, and I 01:01PM 25 suspect we will, but isn't it true that for every 01:01PM

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 114 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

1 command for which your name appears in the 21:01PM 2 author/originator column that starts with "ipv6," that 01:02PM 3 command is identical to a pre-existing command, with the 01:02PM 4 only difference that the pre-existing command used "ip" 01:02PM 5 instead of "ipv6"? 01:02PM 5 instead of "ipv6"? 01:02PM 6 MR. NEUKOM: Objection; vague, compound. 01:02PM 7 THE WITNESS: So I'll have to see the the 01:02PM 8 complete list of commands to make that statement. I'm 01:02PM 9 not sure if this has the complete list, but if you have 01:02PM 10 the both the command set 01:02PM 11 BY MR. SILBERT: 01:02PM 12 Q Well, you do have it in front of you in this 01:02PM 13 large document, but I don't know that it's the best use 01:02PM 14 of our collective time to for you to go point by 01:02PM 15 point. 01:02PM 15 point. 01:02PM 16 A Sure. 01:02PM 17 Q With respect to specifically the command "ipv6 01:02PM 18 ospf cost," did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip spf cost"? 01:03	
3 command is identical to a pre-existing command, with the 01:02PM 4 only difference that the pre-existing command used "ip" 01:02PM 5 instead of "ipv6"? 01:02PM 6 MR. NEUKOM: Objection; vague, compound. 01:02PM 7 THE WITNESS: So I'll have to see the	
4 only difference that the pre-existing command used "ip" 01:02PM 5 instead of "ipv6"? 01:02PM 6 MR. NEUKOM: Objection; vague, compound. 01:02PM 7 THE WITNESS: So I'll have to see the — the 01:02PM 8 complete list of commands to make that statement. I'm 01:02PM 9 not sure if this has the complete list, but if you have 01:02PM 10 the both — the command set — 01:02PM 11 BY MR. SILBERT: 01:02PM 12 Q Well, you do have it in front of you in this 01:02PM 13 large document, but I don't know that it's the best use 01:02PM 14 of our collective time to — for you to go point by 01:02PM 15 point. 01:02PM 16 A Sure. 01:02PM 17 Q With respect to specifically the command "ipv6 01:02PM 18 ospf cost," did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost"? 01:03PM 20 A Yes, that is correct. 01:03PM 21 Q Okay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 26 A Correct. "ipv6" refers to Internet Protocol 01:03PM 37 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 6 title MR NEUKOM: Objection; document speaks for 01:05PM 7 THE WITNESS: So document is using the language 01:05PM 8 title WITNESS: So document is using the language 01:05PM 7 THE WITNESS: So document is using the language 01:05PM 8 with the word "cost" Now, you could use cost metric, a 01:06PM 9 number, but I do structurally see what you mean 1 01:06PM 10 don't think the document, at least this paragraph, talks 01:06PM 11 don't think the document, at least this paragraph, talks 01:06PM 11 don't think the document, at least this paragraph, talks 01:06PM 12 Q Notan standard does all it cost, if that makes sense 01:06PM 13 don't think the document, at least	
5 instead of "ipv6"? 6 MR. NEUKOM: Objection; vague, compound. 7 THE WITNESS: So I'll have to see the the 01:02PM 8 complete list of commands to make that statement. I'm 01:02PM 9 not sure if this has the complete list, but if you have 01:02PM 10 the both the command set 01:02PM 11 BY MR. SILBERT: 01:02PM 12 Q Well, you do have it in front of you in this 01:02PM 13 large document, but I don't know that it's the best use 01:02PM 14 of our collective time to for you to go point by 01:02PM 15 point. 01:02PM 16 A Sure. 01:02PM 17 Q With respect to specifically the command "ipv6 01:02PM 18 ospf cost," did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost"? 01:03PM 20 A Yes, that is correct. 01:03PM 21 Q Cokay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 26 A Correct. "ipv6" refers to Internet Protocol 01:03PM 27 And in the command "ipv6 ospf cost," "ospf" 01:03PM 28 A Correct. In this context, "ipv6" refers to 01:03PM 39 refers to Version 3 of the OSFF standard that's 01:03PM 40 specified by the IETF; correct? 01:03PM 40 specified by the IETF; correct? 01:03PM 40 specified by the IETF; correct? 01:03PM 41 specified by the IETF; correct? 01:03PM 42 specified by the IETF; correct? 01:03PM 43 refers to Version 3 of the OSFF standard that's 01:03PM 44 specified by the IETF; correct? 01:03PM 55 A Correct. In this context, "ipv6" refers to 01:03PM 56 A Correct. In this context, "ipv6" refers to 01:03PM 57 THE WITNESS: So document is using the language 01:05PM 78 with the ord "cost" Now, you could use cost metric, a 01:06PM 99 number; but I do structurally see what you mean I 01:06PM 90 number; but I do structurally see what you mean I 01:06PM 10 don't think the document, at least this paragraph, tables 01:06PM 10 don't think the document, at least this paragraph, tables 01:06PM 10 don't th	
6 MR. NEUKOM: Objection; vague, compound. 7 THE WITNESS: So l'il have to see the — the 8 complete list of commands to make that statement. I'm 01:02PM 9 not sure if this has the complete list, but if you have 01:02PM 10 the both — the command set — 01:02PM 11 BY MR. SILBERT: 01:02PM 12 Q Well, you do have it in front of you in this 01:02PM 13 large document, but I don't know that it's the best use 01:02PM 14 of our collective time to — for you to go point by 01:02PM 15 point. 01:02PM 16 A Sure. 01:02PM 17 Q With respect to specifically the command "ipv6 01:02PM 18 ospf cost," did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost"? 01:02PM 20 A Yes, that is correct. 01:03PM 21 Q Okay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 3 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 6 A Correct. In this context, "ipv6" refers to 01:03PM 7 THE WITNESS: So document is using the language 01:05PM 8 with the word "cost" Now, you could use cost metric, a 01:06PM 9 number, but I doost tricturally see what you mean 1 01:06PM 10 don't think the document, at least this paragraph, talks 01:06PM 11 about you must call it cost, if that makes sense 01:06PM 12 BY MR SILBERT: 01:06PM 13 Q Okay The standard does all it "cost"; right? 01:06PM 14 cost, but the standard does use the word "cost" to refer to 01:06PM 16 that, yes 01:06PM 17 Q And dua's the same word that you use in the 01:06PM 18 command "ip ospf cost"? oli:03PM 20 Q Same word that's in the standard? 01:06PM 21 Q Okay. And in the command of the Ospf refers to 01:03PM 22 Q Yes 01:06PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified by the Ospf cost, "ospf" 01:03PM 3 refers to Version 3 of th	
7 THE WITNESS: So I'll have to see the the 01:02PM 8 complete list of commands to make that statement. I'm 01:02PM 9 not sure if this has the complete list, but if you have 01:02PM 10 the both the command set 01:02PM 11 BY MR. SILBERT: 01:02PM 12 Q Well, you do have it in front of you in this 01:02PM 13 large document, but I don't know that it's the best use 01:02PM 14 of our collective time to for you to go point by 01:02PM 15 point. 01:02PM 16 A Sure. 01:02PM 17 Q With respect to specifically the command "ipv6 01:02PM 18 ospf cost," did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost"? 01:02PM 10 that, yes 01:06PM 10 that, yes 01:06PM 10 that, yes 01:06PM 10 the toth the command, "ipv6" refers to 01:03PM 12 Version 6 of the IP standard that's specified by the 01:03PM 12 Q Right. 01:03PM 12 Q Right. 01:03PM 13 refers to Version 3 of the OSPF standard that's 01:03PM 14 specified by the IETF; correct? 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct. In this context, "ipv6" refers to 01:03PM 15 A Correct	
7 THE WITNESS: So I'll have to see the the 01:02PM 8 complete list of commands to make that statement. I'm 01:02PM 9 not sure if this has the complete list, but if you have 01:02PM 10 the both the command set 01:02PM 11 BY MR. SILBERT: 01:02PM 12 Q Well, you do have it in front of you in this 01:02PM 13 large document, but I don't know that it's the best use 01:02PM 14 of our collective time to for you to go point by 01:02PM 15 point. 01:02PM 16 A Sure. 01:02PM 17 Q With respect to specifically the command "ipv6 01:02PM 18 ospf cost," id you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost"? 01:03PM 20 Version 6 of the IP standard that's specified by the 01:03PM 21 IETF; correct? 01:03PM 22 Version 6 as specified in the RFC. 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 3 of the OSPF standard that's 01:03PM 3 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct.	
8 complete list of commands to make that statement. I'm 01:02PM 9 not sure if this has the complete list, but if you have 01:02PM 10 the both the command set 01:02PM 11 BY MR. SILBERT: 01:02PM 12 Q Well, you do have it in front of you in this 01:02PM 13 large document, but I don't know that it's the best use 01:02PM 14 of our collective time to for you to go point by 01:02PM 15 point. 01:02PM 16 A Sure. 01:02PM 17 Q With respect to specifically the command "ipv6 01:02PM 18 ospf cost," did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost"? 01:02PM 20 A Yes, that is correct. 01:03PM 21 Q Okay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 3 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 6 Q If you go back to Exhibit 54, we are looking at 01:07PM 7 Q If you go back to Exhibit 54, we are looking at 01:07PM 8 with the word "cost" "Now, you could use ost metric, a 01:06PM 9 number, but I do structurally see what you mean 1 01:06PM 10 don't think the document, at least this paragraph, talks 01:06PM 11 about you must call it cost, if that makes sense 01:06PM 12 don't think the document, at least this paragraph, talks 01:06PM 12 don't think the document, at least this paragraph, talks 01:06PM 14 odor think the document, at least this paragraph, talks 01:06PM 15 don't think the document, at least this paragraph, talks 01:06PM 16 don't think the document, at least this paragraph, talks 01:06PM 16 don't think the document, at least this paragraph, talks 01:06PM 16 don't think the document, at least this paragraph, talks 01:06PM 16 don't think the document, deast use the subset of the teast this paragraph, talks 01:06PM 16 don't think th	
9 not sure if this has the complete list, but if you have 01:02PM 10 the both the command set 01:02PM 11 BY MR. SILBERT: 01:02PM 12 Q Well, you do have it in front of you in this 01:02PM 13 large document, but I don't know that it's the best use 01:02PM 14 of our collective time to for you to go point by 01:02PM 15 point. 01:02PM 16 A Sure. 01:02PM 18 ospf cost," did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost"? 01:02PM 20 A Yes, that is correct. 01:03PM 21 Q Okay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to 11:03PM 25 Version 6 as specified in the RFC. 01:03PM 26 A Right. 01:03PM 27 Q Right. 01:03PM 28 A Romand "ipv6 ospf cost," "ospf" 01:03PM 38 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 6 Spage 16. 01:07PM 7 Q Interpretation of the IP standard that's 01:03PM 8 ospf cost," in the standard doesn't say you must call it 01:06PM 15 Double you must call it cost, if that makes sense 01:06PM 16 Indon't think the document, at least this paragraph, talks 01:06PM 19 Ol:06PM 10 don't think the document, at least this paragraph, talks 01:06PM 10 don't think the document, at least this paragraph, talks 01:06PM 11 about you must call it cost, if that makes sense 01:06PM 12 Double you must call it cost, if that makes sense 01:06PM 14 doon't think the document, at least this paragraph, talks 01:06PM 15 Double you must call it cost, but the standard doesn't say you must call it 01:06PM 16 that, yes 01:06PM 17 Q And that's the standard doesn't say you must call it 01:06PM 18 cost, but the standard doesn't say you must call it 01:06PM 19 A the document, at least this subtract call the cost, but the standard doesn't say you must call it 01:06PM 10 cost, but the	
10 the both the command set 01:02PM 11 BY MR. SILBERT: 01:02PM 12 Q Well, you do have it in front of you in this 01:02PM 13 large document, but I don't know that it's the best use 01:02PM 14 of our collective time to for you to go point by 01:02PM 15 point. 01:02PM 16 A Sure. 01:02PM 17 Q With respect to specifically the command "ipv6 01:02PM 18 ospf cost," did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost"? 10 Q Okay. And in the command, "ipv6" refers to 01:03PM 21 Q Okay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 26 A Right. 01:03PM 27 And in the command "ipv6 ospf cost," "ospf" 01:03PM 28 A Correct Version 3 of the OSPF standard that's 01:03PM 39 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 6 Specified by the IETF; correct? 01:03PM 7 Specified by the IETF; correct? 01:03PM 9 Specified by t	
11 BY MR. SILBERT: 01:02PM 12 Q Well, you do have it in front of you in this 01:02PM 13 large document, but I don't know that it's the best use 01:02PM 14 of our collective time to for you to go point by 01:02PM 15 point. 01:02PM 16 A Sure. 01:02PM 17 Q With respect to specifically the command "ipv6 01:02PM 18 ospf cost," did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost"? 01:03PM 20 A Yes, that is correct. 01:03PM 21 Q Okay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 2 And in the command "ipv6 ospf cost," "ospf" 01:03PM 3 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 6 Specified by the IETF; correct? 01:03PM 7 Q Rad that is tost, if that makes sense 01:06PM 12 BY MR SILBERT: 01:06PM 13 Q Okay The standard does call it "cost"; right? 01:06PM 14 cost, but the standard does call it "cost"; right? 01:06PM 15 A The document does use the word "cost" to refer to 01:06PM 16 that, yes 01:06PM 17 Q And that's the same word that you use in the 01:06PM 18 command "jp ospf cost"; right? 01:06PM 19 A We have used the word "cost" to 10:06PM 19 A We have used the word "cost" to 10:06PM 19 A We have used the word "cost" to 10:06PM 19 A We have used the word "cost" to 10:06PM 19 A We have used the word "cost" to 10:06PM 19 A We have used the word "cost" to 10:06PM 10 A We have used the word "cost" to 10:06PM 11 A The two words are the same 01:06PM 12 Q Yes 01:06PM 13 A Yeah our use in the 01:06PM 14 cost, but the standard does call it 01:06PM 15 A The document does use the word "cost" to refer to 01:06PM 16 that, yes 01:06PM 17 Q And that's the same word that you use in the 01:06PM 18 command "jp ospf cost"; right? 01:06PM 19 A We have used	
12 Q Well, you do have it in front of you in this 01:02PM 13 large document, but I don't know that it's the best use 01:02PM 14 of our collective time to for you to go point by 01:02PM 15 point. 01:02PM 16 A Sure. 01:02PM 16 A Sure. 01:02PM 17 Q With respect to specifically the command "ipv6 01:02PM 18 ospf cost," did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost"? 01:02PM 19 used at Cisco, "ip ospf cost"? 01:03PM 20 A Yes, that is correct. 01:03PM 21 Q Okay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 26 And in the command "ipv6 ospf cost," "ospf" 01:03PM 27 And in the command "ipv6 ospf cost," "ospf" 01:03PM 28 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 0	
13 large document, but I don't know that it's the best use 01:02PM 14 of our collective time to for you to go point by 01:02PM 15 point. 01:02PM 16 A Sure. 01:02PM 17 Q With respect to specifically the command "ipv6 01:02PM 18 ospf cost," did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost"? 01:02PM 20 A Yes, that is correct. 01:03PM 21 Q Okay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 2 And in the command "ipv6 ospf cost," "ospf" 01:03PM 3 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 Degate the standard does call it "cost"; right? 01:06PM 16 that, yes 01:06PM 16 that, yes 01:06PM 17 Q And that's the same word that you use in the 01:06PM 18 command "ipospf cost"; right? 01:06PM 19 A We have used the word "cost" o1:06PM 20 Q Same word that's in the standard? 01:06PM 21 A The two words are the same o1:06PM 22 Q Yes 01:06PM 23 Let's go on I suspect that your explanation is 01 07PM 24 going to be similar for this group of IPv6 commands 0	
14 of our collective time to for you to go point by 01:02PM 15 point. 01:02PM 16 A Sure. 01:02PM 17 Q With respect to specifically the command "ipv6 01:02PM 18 ospf cost," did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost"? 01:02PM 20 A Yes, that is correct. 01:03PM 21 Q Okay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 26 And in the command "ipv6 ospf cost," "ospf" 01:03PM 27 And in the command "ipv6 ospf cost," "ospf" 01:03PM 28 Are in the standard does call it "cost"; right? 01:06PM 19 A The document does use the word "cost" to refer to 01:06PM 16 that, yes 01:06PM 17 Q And that's the same word that you use in the 01:06PM 18 command "ip ospf cost"; right? 01:06PM 19 A We have used the word "cost" 01:06PM 20 Q Same word that's in the standard? 01:06PM 21 A The two words are the same 01:06PM 22 Q Yes 01:06PM 23 Let's go on 1 suspect that your explanation is 01:07PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 26 And in the command "ipv6 ospf cost," "ospf" 01:03PM 27 And in the command "ipv6 ospf cost," "ospf" 01:03PM 28 Are in the sake of the record, I think we need 01:07PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 20 A Yeah, please. 01:07PM 21 Q But for the sake of the record, I think we need 01:07PM 21 Q If you go back to Exhibit 54, we are looking at 01:07PM 22 A Correct. In this context, "ipv6" refers to 01:03PM 3 A Yeah, please. 01:07PM	
15 point. 16 A Sure. 17 Q With respect to specifically the command "ipv6 01:02PM 18 ospf cost," did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost"? 10 A Yes, that is correct. 11 Q Okay. And in the command, "ipv6" refers to 01:03PM 12 Version 6 of the IP standard that's specified by the 01:03PM 13 IETF; correct? 14 A Correct. "ipv6" refers to Internet Protocol 01:03PM 15 A The document does use the word "cost" to refer to 01:06PM 16 that, yes 01:06PM 17 Q And that's the same word that you use in the 01:06PM 18 command "ip ospf cost"; right? 01:06PM 19 A We have used the word "cost" 01:06PM 20 Q Same word that's in the standard? 01:06PM 21 A The two words are the same 01:06PM 22 Q Yes 01:06PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 26 A Correct. "ipv6" refers to Internet Protocol 01:03PM 27 And in the command "ipv6 ospf cost," "ospf" 01:03PM 28 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 20 And in the command "ipv6 ospf cost," "ospf" 01:03PM 21 A Yeah 01:07PM 22 And in the command "ipv6 ospf cost," "ospf" 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 A Yeah 01:07PM 26 A Yeah 01:07PM 27 A Yeah, please. 01:07PM 28 A Yeah, please. 01:07PM 29 A Yeah, please. 01:07PM 20 D But for the sake of the record, I think we need 01:07PM 20 D But for the sake of the record, I think we need 01:07PM 21 A Yeah, please. 01:07PM 22 D But for the sake of the record, I think we need 01:07PM 29 A Yeah, please. 01:07PM 20 D But for the sake of the record, I think we need 01:07PM 20 D But for the sake of the record, I think we need 01:07PM 20 D But for the sake of the record, I think we need 01:07PM 21 D But for the sake of the record, I think we need 01:07PM 21 D But for the sake of the record, I think we need 01:07PM 22 D But for the sake of the record, I think we need 01:07PM 23 D But for the sake of	
16 A Sure. 01:02PM 17 Q With respect to specifically the command "ipv6 01:02PM 18 ospf cost," did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost"? 01:02PM 20 A Yes, that is correct. 01:03PM 21 Q Okay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 26 And in the command "ipv6 ospf cost," "ospf" 01:03PM 27 And in the command "ipv6 ospf cost," "ospf" 01:03PM 28 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 20 Q Same word that's in the standard? 01:06PM 21 A The two words are the same 01:06PM 22 Q Yes 01:06PM 23 Let's go on 1 suspect that your explanation is 01 07PM 24 going to be similar for this group of IPv6 commands 01:07PM 25 A Yeah 01:07PM 26 A Yeah 01:07PM 27 Q And that's the same word that you use in the 01:06PM 28 A We have used the word "cost" 01:06PM 29 Q Same word that's in the standard? 01:06PM 20 Q Same word that's in the standard? 01:06PM 21 A The two words are the same 01:06PM 22 Q Yes 01:06PM 23 Let's go on 1 suspect that your explanation is 01 07PM 24 going to be similar for this group of IPv6 commands 01:07PM 25 A Yeah 01:07PM 26 A Yeah 01:07PM 27 A Yeah 01:07PM 28 A Yeah 01:07PM 29 D But for the sake of the record, I think we need 01:07PM 29 D But for the sake of the record, I think we need 01:07PM 20 D But for the sake of the record, I think we need 01:07PM 20 D But for the sake of the record, I think we need 01:07PM 20 D But for the sake of the record, I think we need 01:07PM 21 D But for the sake of the record, I think we need 01:07PM 21 D But for the sake of the record, I think we need 01:07PM 22 D But for the sake of the record, I think we need 01:07PM 23 D But for the sake of the record, I think we need 01:07PM 24 D But for the sake of the record, I think we need 01:07PM 25 D But for the sake of the record, I	
17 Q With respect to specifically the command "ipv6 01:02PM 18 ospf cost," did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost"? 01:02PM 19 used at Cisco, "ip ospf cost"? 01:03PM 20 A Yes, that is correct. 01:03PM 21 Q Okay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 26 A Correct of a Right 19 A We have used the word "cost" 01:06PM 27 Q Same word that's in the standard? 01:06PM 28 Q Version 10:06PM 29 Q Version 10:06PM 29 Q Version 10:06PM 20 Q Same word that's in the standard? 01:06PM 20 Q Version 10:06PM 20 Q Version 10:06PM 20 Q Version 10:06PM 20 Q Version 10:06PM 21 A The two words are the same 01:06PM 20 Q Version 10:06PM 21 A The two words are the same 01:06PM 20 Q Version 10:06PM 20 Q Version 10:06PM 21 A The two words are the same 01:06PM 20 Q Version 10:06PM 21 A The two words are the same 01:06PM 21 A The two words are the same 01:06PM 22 Q Version 10:06PM 23 Let's go on 1 suspect that your explanation is 01 07PM 24 going to be similar for this group of IPv6 commands 01:07PM 25 A Yeal 01:07PM 25 A Yeal 01:07PM 26 The version 3 of the OSPF standard that's 01:03PM 27 Q But for the sake of the record, I think we need 01:07PM 28 Q If you go back to Exhibit 54, we are looking at 01:07PM 29 Q If you go back to Exhibit 54, we are looking at 01:07PM 29 Q If you go back to Exhibit 54, we are looking at 01:07PM 29 Q If you go back to Exhibit 54, we are looking at 01:07PM 29 Q If you go back to Exhibit 54, we are looking at 01:07PM 29 Q If you go back to Exhibit 54, we are looking at 01:07PM 29 Q If you go back to Exhibit 54, we are looking at 01:07PM 29 Q If you go back to Exhibit 54, we are looking at 01:07PM 29 Q If you go back to Exhibit 54, we are looking at 01:07PM 29 Q If you go back to Exhibit 54, we are looking at 01:07PM 29 Q If you go back to Exhibit 54, we are looking at 01:0	
18 ospf cost," did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost"? 19 used at Cisco, "ip ospf cost"? 20 A Yes, that is correct. 21 Q Okay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 26 Page 110 27 Q Right. 28 Page 110 29 Q Same word that's in the standard? 20 Q Same word that's in the standard? 21 A The two words are the same 01:06PM 22 Q Yes 01:06PM 23 Let's go on 1 suspect that your explanation is 01 07PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 30 Q Same word that's in the standard? 31:06PM 32 Let's go on 1 suspect that your explanation is 01 07PM 34 Yeah 35 A Yeah 36 Q But for the sake of the record, I think we need 01:07PM 36 A Correct. In this context, "ipv6" refers to 01:03PM 4 Specified by the IETF; correct? 4 Q If you go back to Exhibit 54, we are looking at 01:07PM 5 page 16. 4 O1:07PM 5 page 16. 5 O1:06PM 90 Q Same word that's in the standard? 91:06PM 91:06PM 91:06PM 91:06PM 91:06PM 91:06PM 91:06PM 91:06PM 91:06PM 91:06PM 91:06PM 91:06PM 91:06PM 91:06PM 92 Q Same word that's in the standard? 91:06PM 92 Q Yes 91:06PM 91:06PM 92 Q Yes 91:0	
19 used at Cisco, "ip ospf cost"? 01:02PM 20 A Yes, that is correct. 01:03PM 21 Q Okay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 26 Q Same word that's in the standard? 19 A We have used the word "cost " 01:06PM 20 Q Same word that's in the standard? 11 A The two words are the same 01:06PM 22 Q Yes 01:06PM 23 Let's go on 1 suspect that your explanation is 01 07PM 24 going to be similar for this group of IPv6 commands 01:07PM 25 A Yeah 01:07PM 26 A Yeah 01:07PM 27 And in the command "ipv6 ospf cost," "ospf" 01:03PM 28 To just cover them all. 01:07PM 29 To just cover them all. 01:07PM 20 Q Same word that's in the standard? 01:06PM 21 A The two words are the same 01:06PM 22 Q Yes 01:06PM 23 Let's go on 1 suspect that your explanation is 01 07PM 24 going to be similar for this group of IPv6 commands 01:07PM 25 A Yeah 01:07PM 26 To just cover them all. 01:07PM 27 To just cover them all. 01:07PM 28 To just cover them all. 01:07PM 29 To just cover them all. 01:07PM 20 To just cover them all. 01:07PM 20 To just cover them all. 01:07PM 21 To just cover them all. 01:07PM 22 To just cover them all. 01:07PM 23 To just cover them all. 01:07PM 25 To just cover them all. 01:07PM 26 To just cover them all. 01:07PM 27 To just cover them all. 01:07PM 28 To just cover them all. 01:07PM 29 To just cover them all. 01:07PM 20 To just cover them all. 01:07PM 20 To just cover them all. 01:07PM 20 To just cover them all. 01:07PM 20 To just cover them all. 01:07PM 21 To just cover them all. 01:07PM 22 To just cover them all. 01:07PM 29 To just cover them all. 01:07PM 20 To just cover them all. 01:07PM 20 To just cover them all. 01:07PM 20 To just cover them all. 01:07PM 20 To just cover them all. 01:07PM 21 To just cover them all. 01:07PM 22 To just cover them all. 01:07PM 23 To just cover them all. 01:07PM 29 To just cover them all. 01:0	
20 A Yes, that is correct. 10:03PM 21 Q Okay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 4 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 11 Q Right. 12 Q Right. 13 Q Right. 14 Q Right. 15 Q Right. 16 Q Right. 17 Q Right. 18 Q But for the sake of the record, I think we need 01:07PM 29 And in the command "ipv6 ospf cost," "ospf" 01:03PM 20 And in the command "ipv6 ospf cost," "ospf" 01:03PM 3 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 17 Q If you go back to Exhibit 54, we are looking at 01:07PM 4 Q If you go back to Exhibit 54, we are looking at 01:07PM 5 page 16. 18 Q Same word that's in the standard? 01:06PM 21 A The two words are the same 01:06PM 22 Q Yes 01:06PM 23 Let's go on 1 suspect that your explanation is 01 07PM 24 going to be similar for this group of IPv6 commands 01:07PM 25 A Yeah 01:07PM 26 Q Same word that's in the standard? 01:06PM 27 A The two words are the same 01:06PM 28 A The two words are the same 01:06PM 29 Q Yes 01:06PM 20 Q Same word that's in the standard? 01:06PM 20 Q Same word that's in the standard? 01:06PM 21 A The two words are the same 01:06PM 22 Q Yes 01:06PM 23 Let's go on 1 suspect that your explanation is 01 07PM 24 going to be similar for this group of IPv6 commands 01:07PM 25 A Yeah 01:07PM 26 Q But for the sake of the record, I think we need 01:07PM 27 A Yeah, please. 01:07PM 28 A Yeah, please. 01:07PM 29 To just cover them all. 01:07PM 20 Just cover them all. 01:07PM 20 Just cover them all. 01:07PM 21 A The two words are the same 01:06PM 22 Q Yes 01:06PM 23 Let's go on 1 suspect that your explanation is 01 07PM 24 going to be similar for this group of IPv6 commands 01:07PM 29 Date of the very command of the very command of the very command of the very command of the very command of the very command of the very command of the very command of the very command of the very command of the very	
21 Q Okay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 26 Page 110 1 Q Right. 01:03PM 27 And in the command "ipv6 ospf cost," "ospf" 01:03PM 28 And in the command "ipv6 ospf cost," "ospf" 01:03PM 30 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 page 16. 01:07PM 20 Yes 01:06PM 22 Q Yes 01:06PM 23 Let's go on 1 suspect that your explanation is 01 07PM 24 going to be similar for this group of IPv6 commands 01:07PM 25 A Yeah 01:07PM 26 A Yeah 01:07PM 27 To just cover them all. 01:07PM 28 To just cover them all. 01:07PM 3 A Yeah, please. 01:07PM 4 Q If you go back to Exhibit 54, we are looking at 01:07PM 5 page 16. 01:07PM	
22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 26 Page 110 1 Q Right. 01:03PM 27 And in the command "ipv6 ospf cost," "ospf" 01:03PM 28 A Correct to Version 3 of the OSPF standard that's 01:03PM 3 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 6 O1:03PM 7 O1:03PM 9 O1:03PM 9 O1:03PM 1 Q But for the sake of the record, I think we need 01:07PM 2 to just cover them all. 01:07PM 3 A Yeah, please. 01:07PM 4 Q If you go back to Exhibit 54, we are looking at 01:07PM 5 page 16. 01:07PM	
23 IETF; correct? O1:03PM 24 A Correct. "ipv6" refers to Internet Protocol 25 Version 6 as specified in the RFC. O1:03PM Page 110 1 Q Right. O1:03PM 2 And in the command "ipv6 ospf cost," "ospf" 3 refers to Version 3 of the OSPF standard that's 4 specified by the IETF; correct? O1:03PM	
24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM Page 110 1 Q Right. 01:03PM 2 And in the command "ipv6 ospf cost," "ospf" 01:03PM 3 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 6 Q If you go back to Exhibit 54, we are looking at 01:07PM 7 Q If you go back to Exhibit 54, we are looking at 01:07PM 8 Q If you go back to Exhibit 54, we are looking at 01:07PM 9 Digital to be similar for this group of IPv6 commands 01:07PM 9 Page 110 1 Q But for the sake of the record, I think we need 01:07PM 9 Digital to be similar for this group of IPv6 commands 01:07PM 9 Page 110 1 Q But for the sake of the record, I think we need 01:07PM 9 Digital to be similar for this group of IPv6 commands 01:07PM 9 Page 110 1 Q But for the sake of the record, I think we need 01:07PM 9 Digital to be similar for this group of IPv6 commands 01:07PM 9 Page 110 1 Q But for the sake of the record, I think we need 01:07PM 9 Digital to be similar for this group of IPv6 commands 01:07PM 9 Digital to be similar for this group of IPv6 commands 01:07PM 9 Digital to be similar for this group of IPv6 commands 01:07PM 9 Digital to be similar for this group of IPv6 commands 01:07PM 9 Digital to be similar for this group of IPv6 commands 01:07PM	
25 Version 6 as specified in the RFC. 01:03PM Page 110 1 Q Right. 01:03PM 2 And in the command "ipv6 ospf cost," "ospf" 01:03PM 3 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 01:07PM 2 to just cover them all. 01:07PM 3 A Yeah, please. 01:07PM 4 Q If you go back to Exhibit 54, we are looking at 01:07PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 page 16. 01:07PM	
Page 110 Page 1	
1 Q Right. 01:03PM 2 And in the command "ipv6 ospf cost," "ospf" 01:03PM 3 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 page 16. 01:07PM	112
2 And in the command "ipv6 ospf cost," "ospf" 01:03PM 3 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 4 Q If you go back to Exhibit 54, we are looking at 01:07PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 page 16. 01:07PM	112
3 refers to Version 3 of the OSPF standard that's 01:03PM 3 A Yeah, please. 01:07PM 4 specified by the IETF; correct? 01:03PM 4 Q If you go back to Exhibit 54, we are looking at 01:07PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 page 16. 01:07PM	
4 specified by the IETF; correct? 01:03PM 4 Q If you go back to Exhibit 54, we are looking at 01:07PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 page 16. 01:07PM	
5 A Correct. In this context, "ipv6" refers to 01:03PM 5 page 16. 01:07PM	
	í
6 Version 3 of Internet RFC, yes. 01:04PM 6 Do you see the last entry there in the "Command 01:07PM	
	Æ.
7 Q And cost is a parameter that's described in the 01:04PM 7 Expression" column is "ipv6 ospf dead-interval"? 01:07PM	Л
8 OSPF specification; correct? 01:04PM 8 A Yes. 01:07PM	
9 A 1 have to refer to that, if you have handy, if 01:04PM 9 Q Okay. And do you see that Cisco and you are 01:07PM	4
10 you can point me. 01:04PM 10 indicated as the author, slash, originator with respect 01:07PM	
11 Q Sure. 01:04PM 11 to that command expression? 01:07PM	
12 So if you go to the OSPF specification, which is 01:04PM 12 A Yes. 01:07PM	
13 RFC 1131, which is Exhibit 01:04PM 13 Q Did you come up with the expression "ipv6 ospf 01:07P	м
14 A 56. 01:04PM 14 dead-interval**? 01:07PM	
15 Q 56 01:04PM 15 A Yes, I did. 01:07PM	
16 A Yeah. 01:05PM 16 Q And when you came up with the expression "ipv6 01:07	DNA
17 Q and look at the page that ends with the Bates 01:05PM 17 ospf dead-interval," did you model it on a pre-existing 01:08PM	
18 No. 6007. 01:05PM 18 command with the name "ip ospf dead-interval"? 01:08PI	1
· · ·	
	IVL
20 Q I'm looking at the first full paragraph at the 01:05PM 20 Q Okay. And in the command "ipv6 ospf 01:08PM	
21 top of that page. 01:05PM 21 dead-interval," "ipv6" refers to Internet Protocol 01:08PM	
Do you see where it says, "A cost is associated 01:05PM 22 Version 6 as specified by the IETF; correct? 01:08PM	
23 with the output side of each router interface. This 01:05PM 23 A Yes. It refers to Internet Protocol Version 6 as 01:08PM	
24 cost is configurable by the system administrator." 01:05PM 24 specified in Internet RFC. 01:08PM	
25 Do you see that? 01:05PM 25 Q And in the command "ipv6 ospf dead-interval," the 01:08F Page 111	
Page 111 Page 1	- 1

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 115 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

1 term "ospf" refers to the OSPF Version 3 standard 01:08PM	1 Version 2, or the IP OSPF, and, again, we have kept the 01:12PM
2 specified by the IETF; correct? 01:09PM	2 same flow and same same syntax 01:12PM
3 A Yes. In this context, "ipv6 ospf" refers to the 01:09PM	3 MR SILBERT: Right 01:12PM
4 OSPF Version 3 specification as specified in an Internet 01:09PM	4 Q And so just, if I understand your testimony 01:12PM
5 RFC. 01:09PM	5 correctly, you are saying that where the specification 01:12PM
6 Q Okay. And a dead interval is a parameter that's 01:09PM	6 uses the term "dead," space "interval," the command uses 01:12PM
7 described in the OSPF specification; right? 01:09PM	7 the term "dead," hyphen, "interval"? 01:12PM
8 A Not sure if you have do you have 01:09PM	8 MR NEUKOM: Objection; misstates the document 01:12PM
9 Q Yeah. It's, again, looking at the oh, that's 01:09PM	, ,
	9 or, pardon me, prior testimony and mischaracterizes the 01:12PM
10 the wrong one. The OSPF specification, which I should 01:09PM	
11 just keep in front of me okay, 56. 01:09PM	11 THE WITNESS: Yeah, so the Internet specification 01:12PM
12 A Yeah. Veah. 01:09PM	12 uses multiple ways It does use a variant, which is 01:12PM
13 Q And please look at the page that ends in Bates 01:09PM	13 dead, space, interval It also uses DeadInt 01:12PM
14 No. 683. 01:09PM	14 The Cisco implementation of IPv6 OSPF uses dead, 01:12PM
Do you see the section with the heading "A.4 The 01:10PM	15 hyphen, interval 01:12PM
16 Hello packet"? 01:10PM	16 BY MR SILBERT: 01:12PM
17 A Yes. 01:10PM	17 Q Okay Just just so we can save a little time, 01:12PM
18 Q I'm reading at the beginning of the second 01:10PM	18 do you and when we get to the next term, do you agree 01:13PM
19 paragraph. Do you see where it says: "All routers 01:10PM	19 that the OSPF specification describes something 01:13PM
20 connected to a common network must agree on certain 01:10PM	20 called a parameter called a Hello interval? 01:13PM
21 parameters (network mask, hello and dead intervals)." 01:10PM	21 A So on the same page, your 683, if you look at the 01:13PM
22 Do you see that? 01:10PM	22 packet, there is something called HelloInt, which is 01:13PM
23 A Yes, I see that. 01:10PM	23 Hello interval 01:13PM
24 Q Okay. So do you agree that a dead interval is a 01:10PM	24 Q Right 01:13PM
25 parameter that's described in the OSPF specification? 01:10PM	25 And also in the sentence above that I read 01:13PM
Page 114	Page 116
MR NEUKOM: Objection; document speaks for 01:10PM	1 previously, it says, "All routers connected to a common 01:13PM
2 itself 01:10PM	2 network must agree on certain parameters (network mask, 01:13PM
3 THE WITNESS: So if you if you look at the 01:10PM	
• •	· · · · · · · · · · · · · · · · · · ·
4 packet from that picture, there is one which is called 01:10PM 5 "DeadInt," and that's the packet format, and the 01:10PM	4 A Yes, that's another reference to it 01:13PM
	5 Q Okay Who else was on the team with you when you 01:13PM
6 document does refer to as "DeadInt," or dead interval, 01:11PM	6 came up with the expression "ipv6 ospf dead-interval"? 01:14PM
7 in multiple places 01:11PM	7 A It's the same set of people, but I don't remember 01:14PM
8 MR SILBERT: Right 01:11PM	8 a specific name at this point Pretty much all of this 01:14PM
9 Q Okay So in the command "ipv6 ospf 01:11PM	9 IPv6 OSPF command we did together at the same time 01:14PM
10 dead-interval," you are referring to the dead interval 01:11PM	10 Q Okay So is that 01;14PM
11 parameter using the same term that's used in the OSPF 01:11PM	11 A Same answer as before 01:14PM
12 specification; right? 01:11PM	12 Q Let me just ask you, and if it's not fair, just 01:14PM
13 MR NEUKOM: Objection; mischaracterizes the 01:11PM	13 say so, but is that answer going to be true for every 01:14PM
I4 document 01:11PM	14 one of these IPv6 OSPF commands? 01:I4PM
15 THE WITNESS: So dead, dash, interval, at least 01:11PM	15 A That is correct 01:14PM
16 from the quick scan, I'm not seeing that in the 01:11PM	16 Q Okay 01:14PM
17 document The document does use "DeadInt," or dead, 01:11PM	
18 space, interval, some of the other variants 01:11PM	17 A It's all done together, one time 01:14PM
• • • • • • • • • • • • • • • • • • • •	17 A It's all done together, one time 01:14PM 18 Q Okay Okay Let's just move to the next 01:14PM
19 BY MR SILBERT: 01:11PM	
	18 Q Okay Okay Let's just move to the next 01:14PM
19 BY MR SILBERT: 01:11PM	18 Q Okay Okay Let's just move to the next 01:14PM 19 command, which is "ipv6 ospfhello-interval" We are 01:14PM
19 BY MR SILBERT: 01:11PM 20 Q Okny So the variation in the command that you 01:11PM	18 Q Okay Okay Let's just move to the next 01:14PM 19 command, which is "ipv6 ospf hello-interval" We are 01:14PM 20 now on the next page of Exhibit 54, page 17 01:14PM
19 BY MR SILBERT: 01:11PM 20 Q Okny So the variation in the command that you 01:11PM 21 have identified is that you added a hyphen; right? 01:11PM	18 Q Okay Okay Let's just move to the next 01:14PM 19 command, which is "ipv6 ospf hello-interval" We are 01:14PM 20 now on the next page of Exhibit 54, page 17 01:14PM 21 Do you see that? 01:14PM 22 A Yes 01:14PM
19 BY MR SILBERT: 01:11PM 20 Q Okny So the variation in the command that you 01:11PM 21 have identified is that you added a hyphen; right? 01:11PM 22 MR NEUKOM: Objection; misstates the document 01:11PM 23 and misstates his prior testimony 01:11PM	18 Q Okay Okay Let's just move to the next 01:14PM 19 command, which is "ipv6 ospf hello-interval" We are 01:14PM 20 now on the next page of Exhibit 54, page 17 01:14PM 21 Do you see that? 01:14PM 22 A Yes 01:14PM 23 Q And Cisco and you, again, are indicated as the 01:14PM
19 BY MR SILBERT: 01:11PM 20 Q Okay So the variation in the command that you 01:11PM 21 have identified is that you added a hyphen; right? 01:11PM 22 MR NEUKOM: Objection; misstates the document 01:11PM 23 and misstates his prior testimony 01:11PM 24 THE WITNESS: Dead, hyphen, interval is how we 01:12PM	18 Q Okay Okay Let's just move to the next 01:14PM 19 command, which is "ipv6 ospfhello-interval" We are 01:14PM 20 now on the next page of Exhibit 54, page 17 01:14PM 21 Do you see that? 01:14PM 22 A Yes 01:14PM 23 Q And Cisco and you, again, are indicated as the 01:14PM 24 author, slash, originator with respect to that command 01:14PM
19 BY MR SILBERT: 01:11PM 20 Q Okay So the variation in the command that you 01:11PM 21 have identified is that you added a hyphen; right? 01:11PM 22 MR NEUKOM: Objection; misstates the document 01:11PM 23 and misstates his prior testimony 01:11PM 24 THE WITNESS: Dead, hyphen, interval is how we 01:12PM	18 Q Okay Okay Let's just move to the next 01:14PM 19 command, which is "ipv6 ospf hello-interval" We are 01:14PM 20 now on the next page of Exhibit 54, page 17 01:14PM 21 Do you see that? 01:14PM 22 A Yes 01:14PM 23 Q And Cisco and you, again, are indicated as the 01:14PM

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 116 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

	1 A Yes. 01:14PM	1 Q Okay So other than the hyphen, there's 01:17PM
	2 MR. NEUKOM: Objection; mischaracterizes the 01:14PM	1 2 again, there's a difference here because 01:17PM
	3 document. 01:14PM	3 "hello-interval," in the command expression, is 01:17PM
.	4 MR. SILBERT: Man. Okay. 01:15PM	4 hyphenated, and the term "Hello interval" in the in 01:17PM
.	5 Q And did you come up with the expression "ipv6 01:15PM	5 the specification has a space instead of a hyphen; is 01:17PM
	6 ospf hello-interval"? 01:15PM	6 that is that it? 01:17PM
1	7 A Yes. I think we are repeating it for all 01:15PM	7 MR NEUKOM: Objection; mischaracterizes the 01:17PM
	8 commands. It's one document. It was all done together, 01:15PM	-
1 9	9 but that's it. 01:15PM	9 THE WITNESS: This command implements the 01:17PM
10		10 functionality as specified by either HelloInt or Hello, 01:17PM
1		11 space, interval 01:17PM
12	•	12 BY MR SILBERT: 01:17PM
1	3 comment generally intended to be helpful. 1 think when 01:15PM	
	the witness is saying it's all one document, he's not 01:15PM	14 "Ipv6 ospf network," which is the next command on 01:17PM
	5 referring to Exhibit 54. He's, rather, talking to the 01:15PM	15 page 17 of Exhibit 54, again, you came up with that 01:18PM
1	6 Bates-stamp number, which is included in the 01:15PM	
1	7 earliest-known document. 01:15PM	16 command expression; is that correct? 01:18PM
18		17 A Yes, I did 01:18PM
ı		
1	O referring to. 01:15PM	19 "ipv6 ospf network," did you model it on a pre-existing 01:18PM
20	•	20 command with a name "ip ospf network"? 01:18PM
	BY MR. SILBERT: 01:15PM	21 A Yes That is the dominant reason to make this 01:18PM
22		
١	hello-interval," did you model it on a pre-existing 01:15PM	23 Q Okay And what's the function of this command, 01:18PM
24	• •	24 incidentally, "ipv6 ospf network"? 01:18PM
25	A Yeah, it's the same answer. That was our 01:15PM Page 118	25 A So this is a interface scope command Interfaces 01:18PM
-	r age 110	Page 120
1	dominant reason to choose this set of keywords. 01:16PM	1 are of different type. There are interfaces which are 01:19PM
2	Q And in the command "ipv6 ospf hello-interval," 01:16PM	2 used to connect two devices together, which are known as 01:19PM
3	does "ipv6" refer to Internet Protocol Version 6 as 01:16PM	3 point-to-point interfaces, or there are interfaces which 01:19PM
4	specified by the IETF? 01:16PM	4 are used to connect one to many. Those are broadcast 01:19PM
5	A Yes, and "ipv6" refers to Internet Protocol 01:16PM	5 interfaces, and there are others. I'll not get into the 01:19PM
6	Version 6 RFC 01:16PM	!
	0.01	6 comprehensive list. 01:19PM
7	Q Okay sorry, I didn't mean to interrupt you. 01:16PM	6 comprehensive list. 01:19PM 7 This command will let you choose what type of 01:19PM
7 8	A That's okay. 01:16PM	·
		7 This command will let you choose what type of 01:19PM
8 9	A That's okay. 01:16PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM
8 9 10	A That's okay. 01:16PM Q And in the command "ipv6 ospf hello-interval," 01:16PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM
8 9 10	A That's okay. 01:16PM Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM
8 9 10 11 12	A That's okay. 01:16PM Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM
8 9 10 11 12	A That's okay. 01:16PM Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM
8 9 10 11 12 13	A That's okay. 01:16PM Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM OSPF Version 3, which is an RFC. 01:16PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM 13 standard; is that correct? 01:19PM
8 9 10 11 12 13 14 15	A That's okay. 01:16PM Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM OSPF Version 3, which is an RFC. 01:16PM Q Okay. And in the command "ipv6 ospf 01:16PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM 13 standard; is that correct? 01:19PM 14 A OSPF standard describes procedure for different 01:19PM 15 type of interconnections. So, for example, there 1 01:20PM
8 9 10 11 12 13 14 15	A That's okay. 01:16PM Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM OSPF Version 3, which is an RFC. 01:16PM Q Okay. And in the command "ipv6 ospf 01:16PM hello-interval," does "hello-interval" refer to a 01:16PM parameter that the OSPF specification describes as a 01:16PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM 13 standard; is that correct? 01:19PM 14 A OSPF standard describes procedure for different 01:19PM 15 type of interconnections. So, for example, there 1 01:20PM 16 can look deeper into it, but there might be sections 01:20PM
8 9 10 11 12 13 14 15 16 17	A That's okay. Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM OSPF Version 3, which is an RFC. 01:16PM Q Okay. And in the command "ipv6 ospf 01:16PM hello-interval," does "hello-interval" refer to a 01:16PM parameter that the OSPF specification describes as a 01:16PM Hello interval? 01:17PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM 13 standard; is that correct? 01:19PM 14 A OSPF standard describes procedure for different 01:19PM 15 type of interconnections. So, for example, there 1 01:20PM 16 can look deeper into it, but there might be sections 01:20PM 17 which will describe if you are connecting in a 01:20PM
8 9 10 11 12 13 14 15 16 17 18	A That's okay. Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM OSPF Version 3, which is an RFC. 01:16PM Q Okay. And in the command "ipv6 ospf 01:16PM hello-interval," does "hello-interval" refer to a 01:16PM parameter that the OSPF specification describes as a 01:16PM Hello interval? 01:17PM MR. NEUKOM: Objection; mischaracterizes the 01:17PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM 13 standard; is that correct? 01:19PM 14 A OSPF standard describes procedure for different 01:19PM 15 type of interconnections. So, for example, there1 01:20PM 16 can look deeper into it, but there might be sections 01:20PM 17 which will describe if you are connecting in a 01:20PM 18 point-to-point sense, these are the procedures you 01:20PM
8 9 10 11 12 13 14 15 16 17 18	A That's okay. Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM OSPF Version 3, which is an RFC. 01:16PM Q Okay. And in the command "ipv6 ospf 01:16PM hello-interval," does "hello-interval" refer to a 01:16PM parameter that the OSPF specification describes as a 01:16PM Hello interval? 01:17PM MR. NEUKOM: Objection; mischaracterizes the 01:17PM document. 01:17PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM 13 standard; is that correct? 01:19PM 14 A OSPF standard describes procedure for different 01:19PM 15 type of interconnections. So, for example, there1 01:20PM 16 can look deeper into it, but there might be sections 01:20PM 17 which will describe if you are connecting in a 01:20PM 18 point-to-point sense, these are the procedures you 01:20PM 19 should be implementing, or if you are if you are 01:20PM
8 9 10 11 12 13 14 15 16 17 18 19 20	A That's okay. Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM OSPF Version 3, which is an RFC. 01:16PM Q Okay. And in the command "ipv6 ospf 01:16PM hello-interval," does "hello-interval" refer to a 01:16PM parameter that the OSPF specification describes as a 01:16PM Hello interval? 01:17PM MR. NEUKOM: Objection; mischaracterizes the 01:17PM document. 01:17PM THE WITNESS: So Hello, hyphen, interval, you can 01:17PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM 13 standard; is that correct? 01:19PM 14 A OSPF standard describes procedure for different 01:19PM 15 type of interconnections. So, for example, there 1 01:20PM 16 can look deeper into it, but there might be sections 01:20PM 17 which will describe if you are connecting in a 01:20PM 18 point-to-point sense, these are the procedures you 01:20PM 19 should be implementing, or if you are if you are 01:20PM 20 connecting to a one-too-many-type circuit, these are the 01:20PM
8 9 10 11 12 13 14 15 16 17 18 19 20 21	A That's okay. Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM OSPF Version 3, which is an RFC. 01:16PM Q Okay. And in the command "ipv6 ospf 01:16PM hello-interval," does "hello-interval" refer to a 01:16PM parameter that the OSPF specification describes as a 01:16PM Hello interval? 01:17PM MR. NEUKOM: Objection; mischaracterizes the 01:17PM document. 01:17PM THE WITNESS: So Hello, hyphen, interval, you can 01:17PM map it to what the the RFC is saying in terms of 01:17PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM 13 standard; is that correct? 01:19PM 14 A OSPF standard describes procedure for different 01:19PM 15 type of interconnections. So, for example, there 1 01:20PM 16 can look deeper into it, but there might be sections 01:20PM 17 which will describe if you are connecting in a 01:20PM 18 point-to-point sense, these are the procedures you 01:20PM 19 should be implementing, or if you are if you are 01:20PM 20 connecting to a one-too-many-type circuit, these are the 01:20PM 21 procedures you should be implementing, so the RFC 01:20PM
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A That's okay. Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM OSPF Version 3, which is an RFC. 01:16PM Q Okay. And in the command "ipv6 ospf 01:16PM hello-interval," does "hello-interval" refer to a 01:16PM parameter that the OSPF specification describes as a 01:16PM Hello interval? 01:17PM MR. NEUKOM: Objection; mischaracterizes the 01:17PM document. 01:17PM THE WITNESS: So Hello, hyphen, interval, you can 01:17PM map it to what the the RFC is saying in terms of 01:17PM HelloInt or Hello, space, interval. 01:17PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM 13 standard; is that correct? 01:19PM 14 A OSPF standard describes procedure for different 01:19PM 15 type of interconnections. So, for example, there1 01:20PM 16 can look deeper into it, but there might be sections 01:20PM 17 which will describe if you are connecting in a 01:20PM 18 point-to-point sense, these are the procedures you 01:20PM 19 should be implementing, or if you are if you are 01:20PM 20 connecting to a one-too-many-type circuit, these are the 01:20PM 21 procedures you should be implementing, so the RFC 01:20PM 22 describes the procedures, and we will have Cisco has 01:20PM
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A That's okay. Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM OSPF Version 3, which is an RFC. 01:16PM Q Okay. And in the command "ipv6 ospf 01:16PM hello-interval," does "hello-interval" refer to a 01:16PM parameter that the OSPF specification describes as a 01:16PM Hello interval? 01:17PM MR. NEUKOM: Objection; mischaracterizes the 01:17PM document. 01:17PM THE WITNESS: So Hello, hyphen, interval, you can 01:17PM map it to what the the RFC is saying in terms of 01:17PM HelloInt or Hello, space, interval. 01:17PM BY MR. SILBERT: 01:17PM	This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM 13 standard; is that correct? 01:19PM 14 A OSPF standard describes procedure for different 01:19PM 15 type of interconnections. So, for example, there1 01:20PM 16 can look deeper into it, but there might be sections 01:20PM 17 which will describe if you are connecting in a 01:20PM 18 point-to-point sense, these are the procedures you 01:20PM 19 should be implementing, or if you are if you are 01:20PM 20 connecting to a one-too-many-type circuit, these are the 01:20PM 21 procedures you should be implementing, so the RFC 01:20PM 22 describes the procedures, and we will have Cisco has 01:20PM 23 CLI, which will implement that procedure in the back 01:20PM
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	A That's okay. Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM OSPF Version 3, which is an RFC. 01:16PM Q Okay. And in the command "ipv6 ospf 01:16PM hello-interval," does "hello-interval" refer to a 01:16PM parameter that the OSPF specification describes as a 01:16PM Hello interval? 01:17PM MR. NEUKOM: Objection; mischaracterizes the 01:17PM document. 01:17PM THE WITNESS: So Hello, hyphen, interval, you can 01:17PM map it to what the the RFC is saying in terms of 01:17PM HelloInt or Hello, space, interval. 01:17PM BY MR. SILBERT: 01:17PM Q Okay. So 01:17PM	This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM 13 standard; is that correct? 01:19PM 14 A OSPF standard describes procedure for different 01:19PM 15 type of interconnections. So, for example, there1 01:20PM 16 can look deeper into it, but there might be sections 01:20PM 17 which will describe if you are connecting in a 01:20PM 18 point-to-point sense, these are the procedures you 01:20PM 19 should be implementing, or if you are if you are 01:20PM 20 connecting to a one-too-many-type circuit, these are the 01:20PM 21 procedures you should be implementing, so the RFC 01:20PM 22 describes the procedures, and we will have Cisco has 01:20PM 23 CLI, which will implement that procedure in the back 01:20PM 24 end. 01:20PM
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A That's okay. Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM OSPF Version 3, which is an RFC. 01:16PM Q Okay. And in the command "ipv6 ospf 01:16PM hello-interval," does "hello-interval" refer to a 01:16PM parameter that the OSPF specification describes as a 01:16PM Hello interval? 01:17PM MR. NEUKOM: Objection; mischaracterizes the 01:17PM document. 01:17PM THE WITNESS: So Hello, hyphen, interval, you can 01:17PM map it to what the the RFC is saying in terms of 01:17PM HelloInt or Hello, space, interval. 01:17PM BY MR. SILBERT: 01:17PM	This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM 13 standard; is that correct? 01:19PM 14 A OSPF standard describes procedure for different 01:19PM 15 type of interconnections. So, for example, there1 01:20PM 16 can look deeper into it, but there might be sections 01:20PM 17 which will describe if you are connecting in a 01:20PM 18 point-to-point sense, these are the procedures you 01:20PM 19 should be implementing, or if you are if you are 01:20PM 20 connecting to a one-too-many-type circuit, these are the 01:20PM 21 procedures you should be implementing, so the RFC 01:20PM 22 describes the procedures, and we will have Cisco has 01:20PM 23 CLI, which will implement that procedure in the back 01:20PM

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 117 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

1 A So — 91-46PM 2 O Think you 64-46PM 4 written by Friedman, and fail describes what has be 64-4PM 5 angustated, or thusing our sked memorial of 47PM 6 O Oksy Other than wins you read in that document, 04-4PM 7 do you know anything class doos in the citization of face 04-4PPM 9 A No 0-4-4PPM 10 MIN SELEBET: Oksy The-make you A ratio 04-4PPM 11 point, again, subject to any redicce based on 04-4PPM 12 questioning by your consult, floats, you very much for 04-4PPM 13 yout time and attention, and Pure conschaing the 04-4PPM 14 deposition of attention, and Pure conschaing the 04-4PPM 15 THE VIDEOGRAPHER: Olay 0-04-4PPM 16 MIN NEUKOM: No direct 04-4PPM 17 THE VIDEOGRAPHER: This concludes today's 04-4PPM 18 MR NEUKOM: No direct 04-4PPM 19 THE VIDEOGRAPHER: This concludes today's 04-4PPM 10 THE VIDEOGRAPHER: This concludes today's 04-4PPM 11 three word of the venticed by Venices Legal Solutions 04-4PPM 12 deposition of Adapt gry The musles of reductinate was 04-4PPM 14 three word of the venticed by Venices Legal Solutions 04-4PPM 15 THE VIDEOGRAPHER: This concludes today's 04-4PPM 16 drove and will be venticed by Venices Legal Solutions 04-4PPM 17 THE VIDEOGRAPHER: This concludes today's 04-4PPM 18 MR NEUKOM: No direct 04-4PPM 19 THE VIDEOGRAPHER: This concludes today's 04-4PPM 10 THE THE VIDEOGRAPHER: This concludes today's 04-4PPM 11 three time and by the time the foregoing its an accurate transcription thereof. 10 IN WITTINESS WHEREOF, I have this date subscribed 17 ny name. 19 THE VIDEOGRAPHER: Only the profession of the proceedings was made by me using machine 10 three trips of the profession of the proceedings prior the proceedings to the trips of the profession of the proceedings prior three from the trips of the profession of the proceedings prior three from the trips of the profession of the proceedings prior three from the trips of the profession of the proceedings prior three from the trips of the profession of the proceedings prior three from the trips of the profession of the proceedings prior three from	THORET CONTIDENTIAL	ATTORICETS ETES ONET
24 25	Q Thank you 04:46PM A so the enclosure title "Description" was 04:46PM written by Friedman, and this describes what he has 04:46PM suggested, so I'm basing on this document 04:47PM Q Okay Other than what you read in that document, 04:47PM do you know anything else about the origination of the 04:47PM A NO 04:47PM MR SILBERT: Okay Then thank you At this 04:47PM point, again, subject to any redirect based on 04:47PM usualistic of the work of the work of the other of 04:47PM to point, again, subject to any redirect based on 04:47PM your time and attention, and I'm concluding the 04:47PM to HE WITNESS: Sure Thanks 04:47PM THE WITNESS: Sure Thanks 04:47PM THE WIDEOGRAPHER: Okay 04:47PM THE VIDEOGRAPHER: Okay 04:47PM THE VIDEOGRAPHER: This concludes today's 04:47PM THE VIDEOGRAPHER: This concludes today's 04:47PM three and will be retained by Veritext Legal Solutions 04:47PM The time is 4:47 p m We are off the record 04:47PM (TIME NOTED: 4:47 P M) I I, ABHAY ROY, do hereby declare under penalty of perjury that I have read the foregoing transcript; that I have made any corrections as appear noted, in this, initialed by me, or attached heretor, that my testimony as contained herein, as corrected, is true and correct. EXECUTED this	I, the undersigned, a Certified Shorthand Reporter of the State of California, do hereby certify: That the foregoing proceedings were taken before me at the time and place herein set forth; that any witnesses in the foregoing proceedings, prior to testifying, were placed under oath; that a verbatim record of the proceedings was made by me using machine shorthand which was thereafter transcribed under my their direction; further, that the foregoing is an accurate transcription thereof. I further certify that I am neither financially interested in the action nor a relative or employee of any attorney or any of the parties. IN WITNESS WHEREOF, I have this date subscribed my name. Number of the parties of
	21 22 23 24 25	
1 450 201	Page 231	

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 118 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

1	UNITED STATE	ES DISTRIC	CT COURT
2	NORTHERN DISTR	RICT OF CA	ALIFORNIA
3	SAN JOS	SE DIVISIO	ON
4			
		x	Case No.
5		:	5:14-cv-05344-BLF (PSG)
		:	
6	CISCO SYSTEMS, INC.,	:	
		:	
7	Plaintiff,	:	
		:	
8	vs.	:	
		:	
9	ARISTA NETWORKS, INC.,	:	
		:	•
10	Defendant.	:	
		:	
11		x	
12			•
13	VIDEOTAPED DEPOS	ITION OF	GREG SATZ
14		23, 2016	
15	HIGHLY CONFIDENTIAL -	ATTORNEY	S' EYES ONLY
16	AOL	UME 1	
17			
18			
19			
20			
21	Reported by		
22	Brooke R. Bohr		
23	CSR No. 753		
24	Job No 2272380		
25	Pages 1 - 168		
			Page 1

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 119 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

Exhibit 406 Document Bates No. CSI-CLI-01828732 112 20 Through Bates No. CSI-CLI-01828783 21 Exhibit 407 Document Beginning Bates No. 141 CSI-CLI-01295215 22 A. Correct. 23 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 24 A. I have.	_	THOTIL I CONTIDENTIAL		TORRETO ETES ONET
2	1		1	BOISE, IDAHO
Street, in the City of Boise, State of Idaho, commencing at 10:10 a.m., on March 23, 2016, before Brooke R. Bohrt, CSR, RPR, a Notury Public in and for the State of Idaho, pursuant to notice, and in accordance with the applicable Rules of Civil Procedure.	1	· ·	2	
some procedure. In and for the State of Idaho, parsaunt or notice, and in accordance with the applicable Rules of Crivil Procedure. In A P P E A R A N C E S Crivil Procedure. In A P P E A R A N C E S Crivil Procedure. In A P P E A R A N C E S S S S S S S S S S S S S S S S S S				
6 before Brooke R. Bohr, CSR, RPR, a Notary Public in and for the State of Habot, pursuant to notice, and in accordance with the applicable Rules of Civil Procedure. 10	1			THE VIDEOGRAPHED. We are now on the record
7 in and fine free State of Idaho, pursuant to notice, and in accordance with the applicable Rules of 9 Civil Procedure. 8 and in accordance with the applicable Rules of 9 Civil Procedure. 8 and in accordance with the applicable Rules of 9 Civil Procedure. 8 A P P E AR A N C E S 9 place them away from the microphones as they can interfere with the deposition audio. Recording will continue until all parties agree to go off record. 9 Collifornia Street, 22nd Floor 10 plant	1			
8 and in accordance with the applicable Rules of 9 Civil Procedure. 10 1 A P P E A R A N C E S 12 FOR PLAINTIFF 1 John M. Neukom, Esq. 13 QUINN EMAMUEL URQUHART & SULLIVAN LLD 14 San Francisco, CA 94111 15 John M. Ferrall, Esq. 16 FOR DEFENDANT 18 Brian L. Ferrall, Esq. 17 KEKER & VAN NEST LLP 633 Battry Street 18 San Francisco, CA 94111 (415) 873-6320 19 biterrall/@kvn.com 19 biterrall/@kvn.com 19 biterrall/@kvn.com 19 biterrall/@kvn.com 10 biterrall/@kvn.com 10	1			•
9 Civil Procedure. 10 A P P E A R A N C E S 11 A P P E A R A N C E S 12 FOR PLANTIFF John M. Neukom, Esq. 3 QUINNE MAMUEL URQUHART & SULLIVAN LLI 4 Son Francisco, CA 94111 (415) 875-6320 15 johnneukom@quinnemanuel.com 16 FOR DEPENDANT 17 Rina L. Ferrall, Esq. 18 San Francisco, CA 94111 (415) 391-5400 19 bferrall@kvn.com 20 San Francisco, CA 94111 (415) 391-5400 19 bferrall@kvn.com 21 San Francisco, CA 94111 (215) 391-5400 21 San Francisco, CA 94111 (216) 391-5400 217 The caption of this case is Cisco 218 San Francisco, CA 94111 (217) 391-5400 219 San Francisco, CA 94111 (218) 391-5400 210 San Francisco, CA 94111 (218) 391-5400 211 San Francisco, CA 94111 (219) The caption of this case is Cisco (210) Systems, Inc. v. Arista Networks, Inc. This case is filed in the United States District Court, Northern District of California, San Jose (210) Systems, Inc. v. Arista Networks, Inc. This case is Filed in the United States District Court, Northern District of California, San Jose (21 is filed in the United States District Court, Northern District of California, San Jose (22 is filed in the United States District Court, Northern District of California, San Jose (23 Division, Case No. 5:14-CV-05344-BLF PSG. The name of the witness is Greg Satz. (24 the very seven the statement of the Witness is Greg Satz. (25 Fauther Examination by Mr. Neukom 151 (26 Fauther Examination by Mr. Ferrall 158 (27 San States) December 20 Programmers (28 San Francisco) CA 94111 (29 GREG SATZ, (20 Greg Satz Linkedfi 13 Cisculture) Carlon Witness, and we can proceed. (30 Santry Street Sasociates they care they represent in Page 4 (40 San San Francisco) CA 94111 (415) 391-3400 (415) 391-3400 (415) 391-3400 (415) 391-3400 (416) 591-3400 (417) 591-3400 (417) 591-3400 (418) 591-3400 (418) 591-3400 (415) 591-3400 (415) 591-3400 (416) 591-3400 (417) 591-3400 (415) 591-3400 (415) 591-3400 (416) 591-3400 (417) 591-3400 (417) 591-3400 (418) 591-3400 (418) 591-3400 (415) 591-3400 (415) 591-3400 (415) 591-3400 (415) 591-3400 (415) 591-3400 (415) 591-3400			1	
11 A P P E A R A N C E S 12 FOR PLANTIFF 1 John M. Neukom, Esq. 13 QUINN EMAMUEL URQUHART & SULLIVAN LD, 50 California Street, 22nd Floor 14 San Francisco, CA 94111 (415) 875-6320 15 johnneukom@quinnemanuel.com 16 FOR DEFENDANT 17 Brian L. Perrull, Esq. 18 San Francisco, CA 94111 (415) 391-5400 19 berrull@kvn.com 20 19 berrull@kvn.com 20 20 20 20 20 20 20 20 20 20 20 20 20 2	9		7	
12 FOR PLANTIFF John M. Neukom, Eq. 10 will continue until all parties agree to go off 11 record. 11 record. 11 record. 11 record. 12 My name is David Cromwell, representing 13 Veritext. The date today is March 23, 2016, and (415) 875-6320 14 the time is approximately 10:10 a.m. This deposition is being held at Tucker & Associates 16 Experiment 15 Experiment 16 FOR DEFIRIDANT 17 Brian L. Perrall, Esq. 16 Experiment 18 San Francisco, CA 94111 (415) 391-5400 19 bferrall@kwn.com 20 Systems, Inc. v. Arista Networks, Inc. This case 17 San Francisco, CA 94111 (415) 391-5400 19 bferrall@kwn.com 20 Systems, Inc. v. Arista Networks, Inc. This case 21 is filed in the United States District Court, 22 Northern District of California, San Jose 23 Division, Case No. 5:14-CV-05344-BLF PSG. The name of the witness is Greg Satz. 24 name of the witness is Greg Satz. 25 At this time, the attorneys present in Page 4 1 the room will identify themselves and the parties 25 At this time, the attorneys present in Page 4 1 the room will identify themselves and the parties 25 At this time, the attorneys present in Page 4 1 the room will identify themselves and the parties 25 At this time, the attorneys present in Page 4 1 the room will identify themselves and the parties 25 At this time, the attorneys present in Page 4 1 the room will identify themselves and the parties 25 At this time, the attorneys present in Page 4 1 the room will identify themselves and the parties 25 At this time, the attorneys present in Page 4 1 the room will identify themselves and the parties 25 At this time, the attorneys present in Page 4 1 the room will identify themselves and the parties 25 At this time, the attorneys present in 1 The COURT: Our court reporter, Brooke Bohr, representing Veritext, will swear in the witness, and we can proceed. 1 Produced as a witness at	10		8	place them away from the microphones as they can
John M. Neukom, Esq. QUINN EMAMUEL URQUHART & SULLIVAN LLI Son Francisco, CA 94111 (415) 873-6320 Tohn EMAMUEL URQUHART & SULLIVAN LLI Son Francisco, CA 94111 (415) 873-6320 KEKER & VAN NEST LLP San Francisco, CA 94111 (415) 391-5400 Perrall@kvn.com WITNES WITNES AWAINTONES AWAINTONES WITNES Page: CREC SATZ Examination by Mr. Ferrall SExibit 400 Greg Satz LinkedIn Exhibit 400 Greg Satz LinkedIn Exhibit 400 Greg Satz LinkedIn Exhibit 400 Greg Satz LinkedIn Exhibit 400 Greg Satz LinkedIn Exhibit 400 Greg Bourment Beginning Bates No. Exhibit 400 Document Beginning Bates No. Exhibit 400 Document Beginning Bates No. Exhibit 400 Document Bates No. CSI-CLI-01828783 Exhibit 405 Document Bates No. CSI-CLI-01935181 John EMAMUEL URQUHART & SULLIVAN LLI My name is David Cromwell, representing Woritext. The date today is March 23, 2016, and the time is approximately 10:10 an. This deposition is being held at Tucker & Associates located at 605 West Fort Street, Boise, Idaho deposition is being beld at Tucker & Associates located at 605 West Fort Street, Boise, Idaho Sociated 605 West Fort Street, Boise, Idaho Bocated at 605 West Fort Street, Boise, Idaho Bocated at 605 West Fort Street, Boise, Idaho Bocated at 605 West Fort Street, Boise, Idaho Bocated at 605 West Fort Street, Boise, Idaho Bocated at 605 West Fort Street, Boise, Idaho Bocated at 605 West Fort Street, Boise, Idaho Bocated at 605 West Fort Street, Boise, Idaho Bocated at 605 West Fort Street, Boise, Idaho Bocated at 605 West Fort Street, Bosise, Idaho Bocated at 605 West Fort Street, Bosise, Idaho Bocated at 605 West Fort Street, Bosise, Idaho Bocated at 605 West Fort Street, Bosise, Idaho Bocated at 605 West Fort Street, Bosise, Idaho Bocated at 605 West Fort Street, Bosise, Idaho Bocated at 605 West Fort Street, Bosise, Idaho Bocated at 605 West Fort Street, Bosise, Idaho Bocated at 605 West Fort Street, Bosise, Idaho Bocated at 605 West Fort Street, Bosise, Idaho Bocated at 605 West Fort Street, Bosise, Idaho Bocated at 605 W	1		9	interfere with the deposition audio. Recording
13 QUINN EMAMUEL URQUIHART & SULLIVAN LLD 1 1 1 1 1 1 1 1 1	12		10	will continue until all parties agree to go off
1	12		11	record.
14 San Francisco, CA 9411 (415) 875-6320 johnneukom@quinnemanuel.com 14 the time is approximately 10:10 a m. This determine is approximately 10:	13	50 California Street 22nd Floor	12	My name is David Cromwell, representing
(415) 875-6320 johnneutkom@quimemanuel.com	14			
Johnneukonigqquinnemanuel.com Fork DEFENDANT Brian L. Ferrall, Esq. 15 located at 605 West Fort Street, Boise, Idaho 17 83702, and is being taken by counsel for the defendant. 18 San Francisco, CA 94111 (415) 391-5400 bferrall@kvn.com 19 bferrall@kvn.com 19 bferrall@kvn.com 20 20 Systems, Inc. v. Arista Networks, Inc. This case 15 Sified in the United States District Court, Northern District of California, San Jose Division, Case No. 5:14-CV-05344-BLF PSG. The name of the witness is Greg Satz. At this time, the attomeys present in Page 4			1	· ·
Brian L. Ferrall, Esq. 17 KEKER & VAN NEST LLP 633 Battery Street 18 San Francisco, CA 94111 (415) 391-5400 19 bferrall@kvn.com 20 Systems, Inc. v. Arista Networks, Inc. This case 21 is filed in the United States District Court, 22 Northern District of California, San Jose 23 Division, Case No. 5:14-CV-05344-BLF PSG. The 24 name of the witness is Greg Satz. 25 Page 2 26 At this time, the attomeys present in 27 defect a samination by Mr. Ferrall San Examination	15			- 1
17 KEKER & VAN NEST LLP	16		1	l de la companya de la companya de la companya de la companya de la companya de la companya de la companya de
633 Battery Street 18 San Francisco, CA 94111 (415) 391-5400 19 bferrall@kvn.com 20 21 22 23 24 24 25 25 26 27 28 29 29 20 21 21 22 22 24 25 26 27 28 28 29 29 20 20 21 21 22 22 24 25 26 27 28 28 29 29 20 20 21 21 22 22 24 25 26 27 28 28 29 29 20 20 21 21 20 21 21 22 22 24 25 26 27 28 28 29 29 20 20 21 20 21 21 21 22 22 24 25 26 27 28 28 29 29 20 20 20 21 21 21 22 22 23 24 24 25 26 27 28 28 29 29 20 20 21 20 21 21 21 22 22 23 24 24 25 26 27 27 28 28 28 29 29 20 20 21 21 21 22 22 23 24 24 25 26 27 28 28 29 29 20 20 20 21 21 21 22 22 23 24 24 25 26 27 28 28 29 29 20 20 20 20 21 21 22 22 23 24 24 25 26 27 28 29 20 20 20 20 20 21 21 22 21 22 22 23 24 24 25 26 27 28 28 28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	177			
18 San Francisco, CA 94111 (415) 391-5400 19 bferrall@kvn.com 20 21 22 22 23 24 25 26 27 28 29 29 20 20 20 20 21 21 22 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 21 21 22 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 21 21 22 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 21 21 22 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 21 21 22 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 21 21 22 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 21 21 22 22 23 24 25 26 27 28 29 29 20 20 20 20 21 21 22 23 24 25 26 27 28 28 29 29 20 20 20 20 20 20 20 20 20 21 21 22 22 23 24 25 26 27 28 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	17		1	
(415) 391-5400 19 bferrall@kvn.com 20	18		I	
19 bferrall@kvn.com 20 21 comparison of the wither states District Court, 21 comparison of the wither states District Court, 22 comparison of the wither states District Court, 23 comparison of the wither states District Court, 24 comparison of the wither states District Court, 25 comparison of the wither states District Court, 26 comparison of the wither states District Court, 27 comparison of the wither states District Court, 28 comparison of the wither states District Court, 29 comparison of the wither states District Court, 20 comparison of the wither states District Court, 21 comparison of the wither states District Court, 22 comparison of the wither states District Court, 23 comparison of the wither states District Court, 24 comparison of the wither states District Court, 25 comparison of the wither states District Court, 26 comparison of the wither states District Court, 27 comparison of the wither states District Court, 28 comparison of the withers is Greg Satz. 29 comparison of the withers is Greg Satz. 20 comparison of the withers is Greg Satz. 21 comparison of the withers is Greg Satz. 22 comparison of the withers is Greg Satz. 23 comparison of the withers is Greg Satz. 24 comparison of the withers is Greg Satz. 25 comparison of the withers is Greg Satz. 26 comparison of the withers is Greg Satz. 28 comparison of the withers is Greg Satz. 29 comparison of the withers is Greg Satz. 20 comparison of the parties of the preparison of the Parties			1	•
22 22 Northern District of California, San Jose 23 Division, Case No. 5:14-CV-05344-BLF PSG. The 24 name of the witness is Greg Satz. 25 At this time, the attorneys present in 26 Page 2 Page 2 27 The company of the witness is Greg Satz. 28 At this time, the attorneys present in 29 Page 4 21 WITNESS 2 GREG SATZ 3 Examination by Mr. Ferrall 5 4 Examination by Mr. Neukom 151 SExhibit on by Mr. Ferrall 158 SExhibit 400 Mr. Neukom 151 SEX HIBITS SEX HI	19		20	•
22 23 24 25 26 27 27 28 29 29 29 29 29 29 29 29 29 29 29 29 29			21	is filed in the United States District Court,
23 24 25 26 27 28 28 29 29 20 20 21 22 22 23 24 24 25 25 26 27 28 29 29 29 20 21 21 22 25 26 27 27 28 28 29 29 20 20 21 21 22 23 24 24 25 25 26 27 28 28 29 29 20 20 21 21 22 21 23 24 24 25 25 26 26 27 27 28 28 29 29 20 21 21 22 25 27 28 28 29 29 20 21 21 21 22 21 23 24 24 25 26 27 28 28 29 29 20 21 21 22 21 23 24 24 25 26 27 28 28 29 29 20 20 21 21 22 21 23 24 24 24 25 24 24 25 24 24 25 24 24 25 24 24 25 24 24 25 24 24 24 25 24 24 25 24 24 25 24 24 25 24 24 25 24 25 24 24 25 24 24 25 24 24 25 24 25 24 24 25 24 24 25 24 24 25 24 24 25 24 24 25 24 24 25 24 24 25 24 24 25 24 24 25 24 24 25 24 24 25 24 24 25 24 24 25 24 24 25 24 24 25 24 24 25 25 26 26 27 28 28 29 29 29 29 20 20 21 21 22 20 21 20 21 20 21 21 20 21 21 20 21 21 20 21 21 20 21 21 20 21 21 21 21 21 21 21 21 21 21 22 21 21			22	Northern District of California, San Jose
24 25 26 27 28 29 29 29 20 20 21 21 22 21 22 23 24 this time, the attorneys present in 25 26 26 27 27 28 28 29 28 29 29 20 20 21 20 21 21 21 22 23 24 this time, the attorneys present in 25 26 27 28 28 29 29 20 20 21 21 21 21 22 23 24 25 25 26 26 27 28 28 29 29 20 21 21 21 22 25 26 27 28 28 29 29 29 20 20 21 21 21 22 20 21 21 22 20 21 22 20 21 22 21 22 21 22 22 23 24 24 25 24 25 25 26 26 27 28 28 29 29 29 29 20 20 21 21 22 20 21 21 22 20 21 21 22 20 21 21 22 21 22 21 22 22 23 24 24 25 24 25 25 26 26 27 28 28 29 29 29 29 29 20 20 21 21 22 21 22 21 22 21 22 22 23 24 24 25 25 26 26 27 28 28 29 29 29 29 29 29 20 20 21 21 22 21 22 21 22 21 22 22 23 24 24 25 25 26 26 27 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29			23	Division, Case No. 5:14-CV-05344-BLF PSG. The
25 At this time, the attorneys present in Page 4 1 WITNESS 2 GREG SATZ Page: 3 Examination by Mr. Ferrall 5 4 Examination by Mr. Ferrall 5 5 Further Examination by Mr. Ferrall 158 6 ****** 1 The room will identify themselves and the parties they represent. 3 MR. FERRALL: Brian Ferrall of Keker & Van Nest on behalf of Arista Networks. 5 MR. NEUKOM: John Neukom for the plaintiff. 7 THE COURT: Our court reporter, Brooke Bohr, representing Veritext, will swear in the witness, and we can proceed. 10 GREG SATZ, Guide and Operations Manual* 11 Exhibit 400 Greg Satz LinkedIn 13 12 Exhibit 400 Greg Satz LinkedIn 13 13 Exhibit 402 One-page Document with 36 14 Bates No. KL-883 15 Exhibit 403 Document Beginning Bates No. 16 Exhibit 404 Document Beginning Bates No. 17 CSI-CLI-00359132 18 Exhibit 405 One-page Document Bates No. 18 Exhibit 406 Document Beginning Bates No. 19 Exhibit 406 Document Beginning Bates No. 10 CSI-CLI-00746924 11 Exhibit 406 Document Beginning Bates No. 21 Exhibit 407 Document Beginning Bates No. 22 CSI-CLI-01952515 23 Exhibit 408 Document Beginning Bates No. 24 A. I have. 25 At this time, the attorneys present in Page 4 1 the room will identify themselves and the parties they represent. 3 MR. FERRALL: Brian Ferrall of Keker & Van Nest on behalf of Arista Networks. 4 Van Nest on behalf of Arista Networks. 5 MR. NEUKOM: John Neukom for the plaintiff. 6 THE COURT: Our court reporter, Brooke Bohr, representing Veritext, will swear in the witness, and we can proceed. 10 GREG SATZ, 11 produced as a witness at the instance of the Defendant, having been first duly sworn, was examined and testified as follows: 12 Exhibit 405 Document Beginning Bates No. 13 Exhibit 406 Document Beginning Bates No. 14 Exhibit 407 Document Beginning Bates No. 15 Exhibit 408 Document Beginning Bates No. 26 CSI-CLI-01295215 27 A. Greg Leonard Satz. 28 Exhibit 408 Document Beginning Bates No. 29 A. Greg Leonard Satz. 20 Q. Mr. Satz, you are not represented by counsel today; is that right? 21 A. I h			24	name of the witness is Greg Satz.
Page 2 Page 4			25	_
2 GREG SATZ Page: 3 Examination by Mr. Ferrall 5 4 Examination by Mr. Neukom 151 5 Further Examination by Mr. Ferrall 158 6 ****** 7 ****** 8 EX H 1 B 1 T S 9 Page: 10 Page: 11 Exhibit 400 Greg Satz LinkedIn 13 12 Exhibit 401 "TOPS-20 DECnet-20 Programmers 22 Guide and Operations Manual" 13 Exhibit 402 One-page Document with 36 Exhibit 403 Document Beginning Bates No. 69 ARISTANDCA00022465 16 Exhibit 404 Document Beginning Bates No. 69 Exhibit 405 One-page Document Bates No. CSI-CLI-00359132 18 Exhibit 405 One-page Document Bates No. CSI-CLI-01828783 20 Exhibit 406 Document Beginning Bates No. 141 CSI-CLI-00359132 21 Exhibit 407 Document Bates No. CSI-CLI-01828783 22 Exhibit 408 Document Beginning Bates No. 141 CSI-CLI-01295215 23 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 24 ***** 25 4 Wan Nest on behalf of Arista Networks. 4 Van Nest on behalf of Arista Networks. 5 MR. NEUKOM: John Neukom for the plaintiff. 6 THE COURT: Our court reporter, Brooke Bohr, representing Veritext, will swear in the witness, and we can proceed. 10 GREG SATZ, produced as a witness at the instance of the Defendant, having been first duly sworn, was examined and testified as follows: 12 Exhibit 403 Document Beginning Bates No. 106 CSI-CLI-00359132 12 Exhibit 405 One-page Document Bates No. 106 CSI-CLI-01295215 22 Through Bates No. CSI-CLI-01828783 23 Exhibit 407 Document Beginning Bates No. 141 CSI-CLI-01295181 24 25 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 26 27 28 29 20 21 21 22 23 24 24 25 26 27 28 28 29 29 20 21 21 22 23 24 25 26 27 28 29 29 20 21 21 22 23 24 25 26 27 28 29 29 20 21 21 21 22 23 24 25 26 27 28 28 29 29 20 21 21 22 23 24 25 26 27 28 29 29 20 21 21 21 22 23 24 25 26 27 2		Page 2		· -
2 GREG SATZ Page: 3 Examination by Mr. Ferrall 5 4 Examination by Mr. Neukom 151 5 Further Examination by Mr. Ferrall 158 6 ****** 7 ****** 8 EX H 1 B 1 T S 9 Page: 10 Page: 11 Exhibit 400 Greg Satz LinkedIn 13 12 Exhibit 401 "TOPS-20 DECnet-20 Programmers 22 Guide and Operations Manual" 13 Exhibit 402 One-page Document with 36 Exhibit 403 Document Beginning Bates No. 69 ARISTANDCA00022465 16 Exhibit 404 Document Beginning Bates No. 69 Exhibit 405 One-page Document Bates No. CSI-CLI-00359132 18 Exhibit 405 One-page Document Bates No. CSI-CLI-01828783 20 Exhibit 406 Document Beginning Bates No. 141 CSI-CLI-00359132 21 Exhibit 407 Document Bates No. CSI-CLI-01828783 22 Exhibit 408 Document Beginning Bates No. 141 CSI-CLI-01295215 23 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 24 ***** 25 4 Wan Nest on behalf of Arista Networks. 4 Van Nest on behalf of Arista Networks. 5 MR. NEUKOM: John Neukom for the plaintiff. 6 THE COURT: Our court reporter, Brooke Bohr, representing Veritext, will swear in the witness, and we can proceed. 10 GREG SATZ, produced as a witness at the instance of the Defendant, having been first duly sworn, was examined and testified as follows: 12 Exhibit 403 Document Beginning Bates No. 106 CSI-CLI-00359132 12 Exhibit 405 One-page Document Bates No. 106 CSI-CLI-01295215 22 Through Bates No. CSI-CLI-01828783 23 Exhibit 407 Document Beginning Bates No. 141 CSI-CLI-01295181 24 25 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 26 27 28 29 20 21 21 22 23 24 24 25 26 27 28 28 29 29 20 21 21 22 23 24 25 26 27 28 29 29 20 21 21 22 23 24 25 26 27 28 29 29 20 21 21 21 22 23 24 25 26 27 28 28 29 29 20 21 21 22 23 24 25 26 27 28 29 29 20 21 21 21 22 23 24 25 26 27 2	1	WITNESS		d 11:1 :0 d 1 1d d
3 Examination by Mr. Ferrall 5 4 Examination by Mr. Neukom 151 5 Further Examination by Mr. Ferrall 158 6 ***** ***** ***** ***** ***** ******			1	-
Further Examination by Mr. Ferrall 158 ***** Further Examination by Mr. Ferrall 158 ***** ***** Further Examination by Mr. Ferrall 158 ***** ***** Further Examination by Mr. Ferrall 158 ****** Further Examined and testified as follows: 10 GREG SATZ, Further Examined and testified as follows: 11 Further Court: Our court reporter, Brooke Bohr, representing Veritext, will swear in the witness, and we can proceed. 10 GREG SATZ, 11 produced as a witness at the instance of the Defendant, having been first duly sworn, was examined and testified as follows: 12 Exhibit 402 Document Beginning Bates No. 84 15 Exhibit 405 One-page Document Bates No. CSI-CLI-01828732 112 One-page Document Bates No. CSI-CLI-01828732 112 One-page Document Bates No. CSI-CLI-01828732 112 One-page Document Bates No. CSI-CLI-01828732 112 One-page Document Bates No. CSI-CLI-01828732 112 One-page Document Bates No. CSI-CLI-01828732 112 One-page Document Bates No. CSI-CLI-01828732 112	3	Examination by Mr. Ferrall 5	l	· ·
***** ***** ***** ***** ***** *****		· · · · · · · · · · · · · · · · · · ·	3	MR. FERRALL: Brian Ferrall of Keker &
***** ***** ***** ***** ***** *****		Further Examination by Mr. Perrait 138	4	
8 EXHIBITS 9 Page: 10 11 Exhibit 400 Greg Satz LinkedIn 12 Exhibit 401 "TOPS-20 DECnet-20 Programmers 22 Guide and Operations Manual" 13 Exhibit 402 One-page Document with 36 Exhibit 403 Document Beginning Bates No. 69 ARISTANDCA00022465 15 Exhibit 404 Document Beginning Bates No. 69 Exhibit 405 One-page Document Bates No. CSI-CLI-01828732 112 18 Exhibit 406 Document Bates No. CSI-CLI-01828732 112 20 Through Bates No. CSI-CLI-01828732 112 21 Exhibit 407 Document Beginning Bates No. 141 CSI-CLI-01295215 22 Exhibit 408 Document Beginning Bates No. 141 CSI-CLI-01295181 24 ***** 10 GREG SATZ, produced as a witness at the instance of the 12 Defendant, having been first duly sworn, was examined and testified as follows: 14 EXAMINATION BY MR. FERRALL: 17 Q. Good morning, Mr. Satz. Can you please state your full name. 19 A. Greg Leonard Satz. Q. Mr. Satz, you are not represented by counsel today; is that right? 21 counsel today; is that right? 22 A. Correct. 23 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 24 ***** 25 A. A. I have. 25 Q. All right. So you know the basic	·	* * * * *	5	MR. NEUKOM: John Neukom for the plaintiff.
Page: Page: Page: Rexhibit 400 Greg Satz LinkedIn 13 GREG SATZ, Guide and Operations Manual* Exhibit 402 One-page Document with 36 Bates No. KL-883 13 Exhibit 403 Document Beginning Bates No. 69 ARISTANDCA00022465 15 Exhibit 404 Document Beginning Bates No. 106 CSI-CLI-00359132 18 Exhibit 405 One-page Document Bates No. CSI-CLI-01828783 21 Exhibit 406 Document Beginning Bates No. CSI-CLI-01828783 21 Exhibit 407 Document Beginning Bates No. 141 CSI-CLI-01295181 22			6	THE COURT: Our court reporter, Brooke Bohr,
Page: 10		EXHIBITS	7	representing Veritext, will swear in the witness,
10 11 Exhibit 400 Greg Satz LinkedIn 12 Exhibit 401 "TOPS-20 DECnet-20 Programmers 13 Exhibit 402 One-page Document with 13 Exhibit 402 One-page Document with 14 Bates No. KL-883 15 Exhibit 403 Document Beginning Bates No. ARISTANDCA00022465 16 Exhibit 404 Document Beginning Bates No. Exhibit 405 One-page Document Bates No. CSI-CLI-00359132 18 Exhibit 405 One-page Document Bates No. CSI-CLI-00746924 19 Exhibit 406 Document Bates No. CSI-CLI-01828732 20 Through Bates No. CSI-CLI-01828783 21 Exhibit 407 Document Beginning Bates No. CSI-CLI-01295215 22 Shibit 408 Document Beginning Bates No. CSI-CLI-01295181 24 ***** 19 GREG SATZ, 10 Defendant, having been first duly sworn, was examined and testified as follows: 15 EXAMINATION 16 BY MR. FERRALL: 17 Q. Good morning, Mr. Satz. Can you please state your full name. 19 A. Greg Leonard Satz. Q. Mr. Satz, you are not represented by counsel today; is that right? 22 A. Correct. 23 Q. Have you ever been deposed before? 24 A. I have. 25 Q. All right. So you know the basic	7	Page:	1	· -
11 Exhibit 401 "TOPS-20 DECnet-20 Programmers 22 Guide and Operations Manual" 12 Exhibit 402 One-page Document with 36 Exhibit 403 Document Beginning Bates No. 69 ARISTANDCA00022465 15 Exhibit 404 Document Beginning Bates No. 84 Exhibit 405 One-page Document Bates No. 106 CSI-CLI-00746924 16 Exhibit 406 Document Bates No. CSI-CLI-01828732 112 20 Through Bates No. CSI-CLI-01828783 21 Exhibit 407 Document Beginning Bates No. 141 CSI-CLI-01295215 22 Exhibit 408 Document Beginning Bates No. 142 CSI-CLI-01295181 24 ***** 10 GREG SATZ, produced as a witness at the instance of the 12 Defendant, having been first duly sworn, was examined and testified as follows: 14 EXAMINATION BY MR. FERRALL: 17 Q. Good morning, Mr. Satz. Can you please state your full name. 19 A. Greg Leonard Satz. Q. Mr. Satz, you are not represented by counsel today; is that right? 21 Counsel today; is that right? 22 A. Correct. 23 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 24 A. I have. 25 All right. So you know the basic		-	6	r
Guide and Operations Manual* Exhibit 402 One-page Document with Exhibit 403 Document Beginning Bates No. 69 ARISTANDC A00022465 Exhibit 404 Document Beginning Bates No. 84 Exhibit 405 One-page Document Bates No. 106 CSI-CLI-00746924 Exhibit 406 Document Bates No. CSI-CLI-01828732 112 Exhibit 407 Document Beginning Bates No. 141 CSI-CLI-01295215 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 Exhibit 408 Document Beginning Bates No. 144 CSI-CLI-01295181 Exhibit 408 Document Beginning Bates No. 144 CSI-CLI-0			ł	GREG SAT7
Exhibit 402 One-page Document with Bates No. KL-883 Schibit 403 Document Beginning Bates No. 69 ARISTANDCA00022465 Exhibit 404 Document Beginning Bates No. 84 CSI-CLI-00359132 Exhibit 405 One-page Document Bates No. 106 CSI-CLI-00746924 Exhibit 406 Document Bates No. CSI-CLI-01828732 Exhibit 407 Document Beginning Bates No. CSI-CLI-01828783 Exhibit 408 Document Beginning Bates No. CSI-CLI-01828783 Exhibit 408 Document Beginning Bates No. CSI-CLI-01295181 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 A Defendant, having been first duly sworn, was examined and testified as follows: EXAMINATION BY MR. FERRALL: Q. Good morning, Mr. Satz. Can you please state your full name. PA. Greg Leonard Satz. Q. Mr. Satz, you are not represented by counsel today; is that right? A. Correct. Q. Have you ever been deposed before? A. I have. A. I have. Q. All right. So you know the basic	12		1	
14 Bates No. KL-883 15 Exhibit 403 Document Beginning Bates No. 69 ARISTANDCA00022465 16 Exhibit 404 Document Beginning Bates No. 84 17 CSI-CLI-00359132 18 Exhibit 405 One-page Document Bates No. 106 CSI-CLI-00746924 19 Exhibit 406 Document Bates No. CSI-CLI-01828732 20 Through Bates No. CSI-CLI-01828783 21 Exhibit 407 Document Beginning Bates No. 141 CSI-CLI-01295215 22 CSI-CLI-01295215 23 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 24 ***** 25 ****** 13 examined and testified as follows: 14 EXAMINATION 16 BY MR. FERRALL: 17 Q. Good morning, Mr. Satz. Can you please 18 state your full name. 19 A. Greg Leonard Satz. 20 Q. Mr. Satz, you are not represented by 21 counsel today; is that right? 22 A. Correct. 23 Q. Have you ever been deposed before? 24 A. I have. 25 Q. All right. So you know the basic	13	Sales and Specialisms mandain	l	
15 Exhibit 403 Document Beginning Bates No. 69 ARISTANDCA00022465 16 Exhibit 404 Document Beginning Bates No. 84 17 CSI-CLI-00359132 18 Exhibit 405 One-page Document Bates No. 106 CSI-CLI-00746924 19 Exhibit 406 Document Bates No. CSI-CLI-01828732 20 Through Bates No. CSI-CLI-01828783 21 Exhibit 407 Document Beginning Bates No. 141 CSI-CLI-01295215 22 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 24 ***** 15 EXAMINATION BY MR. FERRALL: 17 Q. Good morning, Mr. Satz. Can you please state your full name. 19 A. Greg Leonard Satz. 20 Q. Mr. Satz, you are not represented by 21 counsel today; is that right? 22 A. Correct. 23 Q. Have you ever been deposed before? 24 A. I have. 25 Q. All right. So you know the basic		1 0	ŀ	
ARISTANDCA00022465 16 Exhibit 404 Document Beginning Bates No. 84 17 CSI-CLI-00359132 18 Exhibit 405 One-page Document Bates No. 106 CSI-CLI-00746924 19 Exhibit 406 Document Bates No. CSI-CLI-01828732 20 Through Bates No. CSI-CLI-01828783 21 Exhibit 407 Document Beginning Bates No. 141 CSI-CLI-01295215 22 23 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 24 25 25 26 27 28 29 29 20 20 20 20 21 21 21 22 23 24 24 25 24 25 25 26 27 28 28 29 29 20 20 20 21 21 22 23 24 25 25 26 27 28 28 29 29 20 20 20 21 21 22 22 23 24 25 25 26 27 28 28 29 29 20 20 20 21 21 22 20 21 21 22 23 24 25 25 26 27 28 29 29 29 20 20 20 21 21 22 22 23 24 25 24 25 25 26 27 28 28 29 29 29 20 20 20 21 21 22 20 21 21 22 22				examined and testified as follows:
15 EXAMINATION Exhibit 404 Document Beginning Bates No. 84 17 CSI-CLI-00359132 18 Exhibit 405 One-page Document Bates No. 106	13	5 5		
17 CSI-CLI-00359132 18 Exhibit 405 One-page Document Bates No. 106 CSI-CLI-00746924 19 Exhibit 406 Document Bates No. CSI-CLI-01828732 112 20 Through Bates No. CSI-CLI-01828783 21 Exhibit 407 Document Beginning Bates No. 141 CSI-CLI-01295215 22 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 24 ***** 18 Exhibit 406 Document Bates No. CSI-CLI-01828732 112 29 Q. Mr. Satz, you are not represented by 21 counsel today; is that right? 20 Q. Have you ever been deposed before? 21 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 22 Q. Have you ever been deposed before? 23 Q. Have you ever been deposed before? 24 A. I have. 25 Q. All right. So you know the basic	16		15	EXAMINATION
18 Exhibit 405 One-page Document Bates No. 106 CSI-CLI-00746924 19 Exhibit 406 Document Bates No. CSI-CLI-01828732 112 20 Through Bates No. CSI-CLI-01828783 21 Exhibit 407 Document Beginning Bates No. 141 CSI-CLI-01295215 22 A. Correct. 23 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 24 ***** 25 ***** 26 Good morning, Mr. Satz. Can you please 18 state your full name. 19 A. Greg Leonard Satz. 20 Q. Mr. Satz, you are not represented by 21 counsel today; is that right? 22 A. Correct. 23 Q. Have you ever been deposed before? 24 A. I have. 25 Q. All right. So you know the basic	17	5 5	16	BY MR. FERRALL:
CSI-CLI-00746924 18 state your full name. 19 Exhibit 406 Document Bates No. CSI-CLI-01828732 112 20 Through Bates No. CSI-CLI-01828783 21 Exhibit 407 Document Beginning Bates No. 141			17	Q. Good morning, Mr. Satz. Can you please
19 Exhibit 406 Document Bates No. CSI-CLI-01828732 112 20 Through Bates No. CSI-CLI-01828783 21 Exhibit 407 Document Beginning Bates No. 141		1 ~	18	
Exhibit 406 Document Bates No. CSI-CLI-01828783 Through Bates No. CSI-CLI-01828783 Exhibit 407 Document Beginning Bates No. 141 CSI-CLI-01295215 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 Exhibit 407 Document Beginning Bates No. 141 CSI-CLI-01295215 A. Correct. 23 Q. Have you ever been deposed before? 24 A. I have. 25 Q. All right. So you know the basic	19	BITTO DE LA PROPERTIE DE LA PR		
21 Exhibit 407 Document Beginning Bates No. 141 CSI-CLI-01295215 22 23 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 24 25 ***** 25 O. All right. So you know the basic	20			
CSI-CLI-01295215 22 23 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181 24 25 ***** CSI-CLI-01295181 27 28 A. Correct. 29 A. Have you ever been deposed before? 24 A. I have. 25 Q. All right. So you know the basic	21			
23 Exhibit 408 Document Beginning Bates No. 143 23 Q. Have you ever been deposed before? CSI-CLI-01295181 24 A. I have. 25 ***** 25 Q. All right. So you know the basic		, i		
CSI-CLI-01295181 24 A. I have. 25 **** 25 Q. All right. So you know the basic	22	Publish 400 December 4 Production Posts 34 142		
24 A. Thave. 25 ***** 25 Q. All right. So you know the basic	23	5 0		
25	24	CDI-CDI-012/0101		
Page 3 Page 5	25		25	
		Page 3	************	Page 5

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 120 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

	did, while it had the same capability, was more	1	evolved. And I can't speak to that as much.
2	2 robust, had a higher performance capability.	2	Q. BY MR. FERRALL: Okay. But
3	Because as the networks evolved, you needed to be	3	A. But managing that was important.
4	able to push data faster. And Stanford's code was	4	Q. And just by way of example, you
1 5	basic. It was there to just move the data, not	5	mentioned IGRP.
1	move it with the requirements that the next few	6	A. Um-hum.
1 7	years dictated. And a lot of what Kirk did was to	7	 Q. And that was a technology that Cisco
8	create high-speed interfaces, and that's what	8	chose to keep proprietary, right?
9	1 1	9	A. Yes.
10		10	` &
11		11	technologies that Cisco was involved in
12	· · · · · · · · · · · · · · · · · · ·	12	developing, like BGP, for example?
13	• •	13	A. Right.
14		14	Q. And that Cisco chose to publish RFCs
15	•	15	about, right?
16	Q. And what's the purpose of a request for	16	A. Well, Cisco didn't publish the RFCs.
17		17	Cisco a person like Kirk might be a part of the
18	•	18	team that developed BGP and then Kirk would have
19	•	19	his name on it with a Cisco title, but it wasn't
20		20	Cisco, it was actually Kirk. And the RFC itself
21	proposed solution and a trial solution and then a	21	is an open document. So just to make that
22	• •	22	distinction.
23	through a community and an implementation and a	23	If there was a protocol that showed up
24	trial and then some feedback. So it was an	24	from the IETF, Cisco was typically involved.
25	engineering group. Their goal was to deliver	25	Q. And what was your involvement in
_	Page 66		Page 68
1	something working. Companies would try to use it	1	IETF in IETF? Did you
2	as to competitive advantages. But the	2	A. I would go to the meetings and attend
3	standards body existed to create a level playing	3	various functions and decide, based on the
4	field.	4	software responsibility I had, to participate in
5	Q. And did you have a view at the time as	5	different standards or not.
6	to the importance of publishing technology through	6	MR. FERRALL: Let's mark this as the next
7	RFCs? Well, let me strike that. That was a	7	exhibit.
8	garbled question.	8	(Exhibit 403 marked.)
9	In your experience at Cisco in the	9	THE WITNESS: More ancient history.
10		10	Q. BY MR. FERRALL: Yeah. So I've marked
11	RFCs important to Cisco?	11	as Exhibit 403 what I think is an IETF RFC for a
12	MR. NEUKOM: Objection; vague, compound, and	12	simple network management protocol, SNMP. Do you
13	lack of foundation.	13	recognize this, Mr. Satz?
14	THE WITNESS: Back then it wasn't clear how	14	A. I do.
15	successful Cisco would be and/or whether we might	15	Q. Did you have involvement in the SNMP
16	maintain or keep a competitive advantage. So	16	RFC?
17	there really was a series of tradeoffs in the	17	A. I did.
18	decision to create an RFC and make it a community	18	Q. What was that involvement?
19	effort or to create a proprietary solution and	19	A. I was just part of the working group
20	then decide whether to make it an RFC later. Most	20	that went through the process of deciding what
21	of the times, it was to make the customers happy.	21	would be done as a solution to network management.
22	If the customers wanted something documented, we	22	And SNMP was the output.
23	would typically figure out how to comply with	23	Q. Do you remember when this SNMP working
24	that. Later, as the company got larger and I	24	group began to discuss this solution?
	to the state of th	~~	4 75 1 13 1 1 1 2 2 2 2 2
25	wasn't involved, managing the IETF and RFC process Page 67	25	A. Probably a couple years before this Page 69

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 121 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

1 document, at least a year. 1 called an SNMP community. 2 Q. And do you remember any particular 2 Do you see that? 3 3 parts that you contributed, specifically? A. Yes. 4 A. I think I did an RFC for a MIB for 4 Q. Is that consistent with your definition 5 CLNS, another protocol stack that since 5 of SNMP community that you just described? 6 disappeared. 6 A. Yeah. It's more mind-numbing when you 7 7 Q. Was there a -- have you ever heard of see it in words. 8 the term "SNMP server"? 8 Q. I couldn't agree more. 9 A. Oh, the command line, parsed for the --9 A. Yeah. It turns out a lot of these yeah -- configuration? Um-hum. Yes, I created things are written to be really obtuse. They are 10 10 11 that. 11 not intended to be obtuse, but they have a 12 O. What's -- is there such a thing as an 12 structure to them that when you turn it into SNMP server, or what does that term mean? 13 13 English or a simple picture it takes a lot of this 14 A. Wow. 14 out. They tried to make a more generic 15 MR. NEUKOM: Objection; lack of foundation, 15 mathematical underpinning to a mapping that added calls for opinion testimony. 16 a level of complexity that just ultimately wasn't 16 17 THE WITNESS: I think all of that code is 17 necessary. But they were trying to be very 18 gone now. The SNMP server was the way to tell the 18 flexible. 19 router software that it was to be an SNMP -- it 19 Q. Okay. But this notion of community as 20 was to start the SNMP protocol. So it would then 20 described in the Exhibit 403 is the same as the 21 begin to listen to and process SNMP packets. And 21 community that you understood when you --22 22 it was probably one of the first commands A. I made the implementation simpler 23 implemented as part of this RFC to implement it 23 because of adding a whole layer. The idea, if I 24 and create an SNMP protocol within the Cisco 24 can remember any of this craziness, is that you 25 software. 25 would have a table of -- no different than a Page 72 Page 70 1 MR. NEUKOM: And, Brian, I rescind my prior 1 database in today's language -- and you could be able pull out individual things. And so they 2 objection. Pardon me. 2 3 THE WITNESS: Hey, just because I write it, 3 wanted to be able to map authorizations to 4 doesn't mean I'm the expert. 4 individual entries in the database. And the 5 MR. FERRALL: You can't -- you can't 5 implementation I did was to make it an all or rescind. No rescinding objections, Mr. Neukom. 6 6 nothing. Because if somebody wanted that level of 7 Q. BY MR. FERRALL: What's -- what's the 7 specificity they'd ask for it and then we'd go 8 back and put all that crazy complexity into the 8 notion of community in the context of SNMP? 9 A. After a while, you start running out of 9 code. But just because the standard made it that 10 10 words, so you pick one that tries to create a flexible we weren't going to go that far. It was 11 sense of purpose. And so "community" was an 11 an engineering choice and cost benefit. 12 12 attempt to describe a collection of users who Yeah, I don't know if you've ever heard of Vint Cerf? 13 13 would have a specific purpose with respect to 14 using the protocol. It was nothing more than an 14 Q. Sure. 15 authorization or an access. A password, as it 15 A. So one of the more inspiring aspects of this work, we had three different protocols 16 16 17 Q. So if you look at Page 7 of this 17 compete to be the network management RFC, and so Exhibit 403. there was just three groups of engineers that were 18 MR. NEUKOM: Sorry. Which page are we on? 19 19 not happy, or wanted their choice. And I watched 20 MR. FERRALL: Page 7. 20 Vint come in and broker a -- mediate, and I had 21 Q. BY MR. FERRALL: If you see under 21 never seen that kind of mediation happen before, 22 22 Section 3.2.5, Definition of Administrative let alone difficult engineers. And so it was a 23 23 very inspiring time to watch somebody. And then Relationships, and then the second paragraph there 24 says, quote, appearing of an SNMP agent with some 24 so, you know, Vint was the author of a lot of the 25 arbitrary set of SNMP application entities is TCP/IP protocols. So people respected him and

Page 71

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 122 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

1	1 0	1	REPORTER'S CERTIFICATE
2		2	
3		3	
4		4	I, BROOKE R. BOHR, a Notary Public in
5		5	and for the State of Idaho, do hereby certify:
6	.	i i	That prior to being examined, the
7	•	7	witness named in the foregoing deposition was by
8		8	me duly sworn to testify the truth, the whole
10		9	truth, and nothing but the truth;
ł	S	10	That said deposition was taken down by
11 12		11 12	me in shorthand at the time and place therein
13		13	named and thereafter reduced into typewriting under my direction, and that the foregoing
14	١	14	transcript contains a full, true, and verbatim
15	` 1	15	record of the said deposition.
16	· · · · · · · · · · · · · · · · · · ·	16	I further certify that I have no
17		17	interest in the event of the action.
18		18	WITNESS my hand and seal March 30, 2016
19		19	WITHESS my hand and soul majon 30, 2010.
20		20	
21		21	
22		22	
23		23	<%signature%>
24		24	Brooke R. Bohr
25		25	CSR No. 753
	Page 166		Page 168
1	VERIFICATION		
2	I declare under penalty of perjury		
3	under the laws that the foregoing is		
4	true and correct.		
5			
6	Executed on, 20,		
7	at		
8			
9			
10			
11			
12	WHAT ELGG ON CONTINUES IN		
13	WITNESS SIGNATURE		
14			
15			
16			
17			
18			
19 20			
21			
22			
23			
24			
25			
40	Page 167		